

APPENDIX A

HISTORICAL RECEIPT DATA



A.1 FEMP

Bubble charts, at the MTU level of recycled uranium, representing the flows into the FEMP have been developed based on the information presented in the Tables, following the bubble charts. A separate bubble chart was prepared for the Enriched, Normal, and Depleted Receipts. The Tables for receipts have been developed at the uranium and uranium-235 level (grams for enriched uranium and kilograms for the normal and depleted uranium). The Tables include all years, however, only the recycled uranium is included in the bubble charts. Table ES-1 highlights the differences between the Total Receipts and the Recycled Uranium Receipts. Additional detail is summarized in Section 3.1 of this report.

A.1.1 FEMP DATA SOURCES

The data for Appendix A.1 has been compiled from the following documents:

- 1951 - 1967 National Lead Company of Ohio SS Material Accountability Report; National Lead Company of Ohio Nuclear Management Report. The information used was the year-to-date balances as of the end of the Fiscal Year (FY). A report was issued for Enriched Uranium (EU) Normal Uranium (NU), and Depleted Uranium (DU).
- 1968-1972 Nuclear Materials Management and Safeguards System (NMSS) Report M-742. The information used was the year-to-date balances as of the end of the Fiscal Year (FY). A report was issued for Enriched Uranium (EU) Normal Uranium (NU), and Depleted Uranium (DU).
- 1973-1976 NLO Nuclear Material Balance Reports. The information used was the year-to-date balances as of the end of the Fiscal Year (FY). A report was issued for Enriched Uranium (EU) Normal Uranium (NU), and Depleted Uranium (DU).
- 1977 - Present Nuclear Materials Management and Safeguards System (NMSS) Report M-742. The information used was the year-to-date balances as of the end of the Fiscal Year (FY). A report was issued for Enriched Uranium (EU) Normal Uranium (NU), and Depleted Uranium (DU).

Fiscal Year 1976 was a 15-month year with the FY end moving from June 30 to September 30. The data for this year is reflected in a 12-month section and then a three-month "year." In FY1986, the contractor changed from NLO to Westinghouse. This year is broken into two parts reflecting the change of contractor. In FY1995, the contractor changed from WEMCO to FERMCO in NMSS. This year is also broken into two parts reflecting the change of contractor.



A.1.2 MATERIAL BALANCE DATA PRESENTATION AND DISCUSSION

All nuclear materials transactions were recorded by the operating contractor and reported monthly to DOE. These records of transactions (receipts and shipments) along with records of intra-plant inventories and plant discards were reviewed and evaluated by DOE nuclear materials control groups on a continuing basis. In the Attachment to this Appendix, excerpts from the Nuclear Materials Control and Accountability plan (NLCO-1173) have been included which provide additional detail on the process in uses at the FEMP.

To prepare the information for this report, the amounts of receipts were placed in Excel spreadsheets and tracked by year and individual RIS code. A summary of the information was obtained by rolling up the information to the 12 facilities of interest. The "Other Sites" category was used to compile receipts for non-DOE sites and other facilities that did not receive a significant amount of recycled uranium. Minor differences were found between receiver and shipper sites due to some of the secrecy measures previously taken in the DOE Complex, as an example the shipments received by the FEMP from the WVDP were received, per our records from the RIS code DAA (DOE Savannah River Office). This made balancing of the information not as precise as expected. Rounding of the information was also done to the MTU level allowed for minor discrepancies to be "normalized" which made the data easier to balance.



APPENDIX A.1

NUCLEAR MATERIALS AND CONTROLS
(EXCERPTS FROM NLCO-1173)



1.0 OVERVIEW OF NUCLEAR MATERIALS CONTROL

DOE Order 5630.2 required all nuclear facilities to provide for the control and protection of their inventories of nuclear materials. The major portion of the FEMP inventory during 37 years of operations was in Category IV (normal and depleted uranium). All of the FEMP enriched uranium materials was in Category III (< 20.0% U-235), and most of it assayed well below 5.0% U-235. The FEMP did not have Category I (plutonium) or Category II (enriched uranium containing 20% U-235, or more) special materials on inventory that required security controls for limiting access to them. DOE designated the FEMP as the official repository for the long-term storage of surplus uranium in Categories III and IV.

Close surveillance was maintained over every movement of nuclear materials at the FEMP to safeguard valuable nuclear materials assets through appropriate physical controls, records, and measurement and verification procedures. All nuclear materials generated at the FEMP or received from offsite were lot-marked and color-coded in accordance with established procedures. The 11-digit number assigned to each lot was the basis for maintaining inventory control and utilization of nuclear materials at the FEMP.

Liaison was maintained with DOE-ORO and other site contractors on all technical matters pertaining to shipment and receipt of nuclear materials, evaluation of scrap, settlement of shipper-receiver measurement differences, misidentification of materials and other related problems. All documents for offsite shipments and receipts of nuclear scrap and other non-routine materials were independently reviewed and authenticated prior to acceptance into official site records. A physical check and item count was performed when shipments were received on site to identify any shipper-receiver discrepancies. All shipments were formally acknowledged upon receipt for compliance with regulations. Documents and data relating to external and internal nuclear materials transactions were prepared for routine transmittal into the Nuclear Materials Management and Safeguards System (NMMSS).

Plant operations were audited for compliance with procedures. Improvements for controlling materials were identified by field monitoring, weight and isotopic verification, and review of standard operating procedures. Surveillance was maintained over isotopic crossover in plant operations through the monitoring of isotopic analyses of process materials and verification procedures. Physical work-in-process inventories in Material Balance Areas assigned for the plants and process areas were monitored and physical inventory differences were resolved.



2.0 MATERIAL IDENTIFICATION AND CONTROL

Lot marked and color-coded materials were segregated during processing, recovery or storage operations in a manner that retained their isotopic integrity and complete separation from other materials. Control procedures were established and regulated to prevent unintentional mixing or crossover of materials.

2.1 LOT-MARKING AND COLOR-CODING SYSTEM

The use of the present FEMP lot-marking system (IM-7004) began some 30 years ago, and revisions were made as changes took place in processes and products. Predecessor lot-marking systems were in place when recycle uranium (A500) was first received at the FEMP in 1961. Lot markings assigned by previous systems were transitioned to the present system.

The five basic elements (I-V) of the present lot-marking system are listed in Table A.1-1. A description of each element of the system together with an example is given in the table. The coding system assigned the same material description code to similar materials regardless of their source or special nature, whether it was normal, enriched, or depleted uranium or thorium. Nuclear materials were grouped by material types and isotopic assay in lot sizes that were based upon either one month's production, a pre-determined number of containers, or limited quantities to meet nuclear criticality safety requirements.

Lot marking of material received from offsite generally conformed to the standard internal format. Two exceptions were: 1) the source code was the three-letter Reporting Identification Symbol (RIS) and 2) the lot-sequence number assigned was the DOE-741 Form number assigned by the shipper. A brief summary of the color-coding system is shown in Table A.1-2. Color-coding was also applied as a secondary method of assuring complete separation of depleted, normal, and enriched uranium and other materials.

2.2 ISOTOPIC SEGREGATION AND CONTROL

The FEMP Lot Marking and Color Coding System was augmented by physical separation of depleted, normal and enriched uranium in storage and process areas. Certain areas were involved in the simultaneous processing of enriched and depleted uranium, sometimes using common units of equipment. Under such extenuating circumstances, approval to operate under crossover conditions was obtained from DOE-ORO because complete isotopic segregation was either impossible or impractical. Some of the more common types of isotopic crossover material generated onsite occurred in the form of vacuum dusts, heat treatment furnace salts, and sump sludge. Calculations were made for the amount of isotopic crossover that occurred from lot to lot. At the end of each physical inventory period, DOE-741 Form was



prepared to show the lot numbers, magnitude, and direction of crossover experienced during that period.

2.3 EXTERNAL SHIPMENTS AND RECEIPTS

All vehicles transporting nuclear materials were registered and inspected upon entering or leaving the main access gate. Approved shipping orders for nuclear materials and authorizations for the receipt of such materials were mandatory documents for each vehicle. Tamper-proof seals were applied to all full-vehicle shipments of nuclear materials from the plant site. Seal numbers were recorded on the Shipping Order and on the Nuclear Material Transaction Report. Incoming shipments of nuclear materials were similarly checked for intact seals upon arrival. Seal numbers were recorded and checked with the shipper's data to identify irregularities.

The uranium content of all materials produced at the FEMP and consigned to offsite shipment was measured and evaluated accurately from actual or factor weight data. An approved Production Order was required prior to the shipment of all such materials from the FEMP. Container piece counts and gross weights were verified for almost all nuclear material receipts. The exception was those materials delivered directly to a designated plant, such as, RMI extruded tubes delivered to Plant 6. In these cases, the receiving plant was responsible for piece count and weight verification. After verification, receipts of nuclear material were inspected, lot marked and color coded at Plant 1 prior to transferring to Plant 1 for sampling and official weighing. Materials that were not amenable to sampling were transferred to storage for an agreed upon disposition to the production plants.

The FEMP utilized a rigid system of control over the shipment of uranium and thorium materials consigned to the site as feed, remelt, or for recovery. This system required all shippers to obtain a shipment authorization (NLT) number, scheduled date of delivery, and an acceptance of the material for processing. A form, "Authorization-To-Ship Nuclear Materials" was used to obtain authorization and to provide the FEMP with maximum material description and data. Authorization NLT numbers for routine shipments were controlled directly by production operations. MC&A issued NLT numbers for all non-routine shipments of residues, samples, and other materials.

**TABLE A.1-1
FEMP LOT IDENTIFICATION SYSTEM**

Element	Convention	Hyphen	Normal; Thorium	Enriched; Depleted	Example
I. Production Order Number	Alpha-Numeric	After	None	4 digits	H067
II. Origin or Source Code	Alpha-Numeric	After	3 digits	3 digits	665



Element	Convention	Hyphen	Normal; Thorium	Enriched; Depleted	Example
III. Class or Enrichment Code	Alpha-Numeric	None	1 digit	1 digit	5
IV. Material Description Code	Numbers	After	3 digits	3 digits	410
V. Lot or Sequence Number	Numbers	None	4 digits	4 digits	3000
Total Digits			11 digits	15 digits	

EXAMPLE: The Lot Identification Number of H067-665-5410-3000 means:

Enriched uranium finished ingots were produced under Production Order #H067 for Hanford N-Reactor at a standard isotopic assay of 0.947% U-235.

**TABLE A.1-2
FEMP COLOR CODING SYSTEM**

Type of Material	Paint Color Basic Container	Paint Color Identification Markings	Paint Color Stripe
Normal Uranium	Black	White	Yellow
Enriched – unrestricted	Black	White	Red
Enriched - restricted by mass, geometry or concentration	Red	White	None
Depleted	Black	White	Green
Thorium	Black	White	Blue
Alloys	Black	White	White

For purposes of reporting to the NMMSS, the NLO, Inc. computer has been programmed to translate the FEMP internal coding system into the corresponding appropriate CIDI and ANSI codes required by DOE for material balance reports and other nuclear materials information.

3.0 ACCOUNTABILITY OF NUCLEAR MATERIALS

3.1 MATERIAL BALANCE AREAS

Monthly reports were submitted to DOE for all normal, enriched, and depleted uranium and thorium on inventory as well as external receipts and shipments. Inventory differences were reported quarterly for the enriched uranium and semi-annually for inventories of normal and depleted uranium. A detailed breakdown of transactions of nuclear materials between the production plants and process areas provided specific accountability data by establishing Material Balance Areas (MBA's). The FEMP production processes are described in detail in Appendix D, Attachment 1. Each material balance area of the FEMP was assigned a 3-digit identification code that depended upon the plant and type of material. The first



two digits are shown in the Table E4-3. The third digit was assigned based upon whether the material category was 1) raw material, 2) work-in-process, 3) finished material, or 4) scrap. Category 0 was used to designate material in storage. For example, reduction furnace pots filled with a blend of depleted UF₄ and magnesium granules in Plant 5 would be MBA 342, as shown in Table E4-3. Appropriate internal transaction entries recorded all essential production data that were posted to a permanent ledger called the "Monthly Nuclear Materials Balance Summary."

3.2 INVENTORY OF WORK-IN-PROCESS MATERIALS

An accurate physical inventory of all nuclear materials in process or storage at the FEMP was an essential element of the control and management of nuclear materials. Production MBA reports began with a statement of the physical inventory quantities brought forward from the ending physical inventory of the previous report. The addition of the beginning inventory and the recorded activity of the period were used to calculate the book value. The comparison of the book value with the ending physical inventory produced an "Inventory Difference" (ID), which was a major index of the effectiveness of nuclear materials control. Enriched uranium work-in-process materials were physically inventoried quarterly and depleted and normal uranium semi-annually.

3.3 FACTOR ANALYSES AND WEIGHTS

3.3.1 Tentative and Factor Analyses

The factor assay program was established for materials that were generated within the FEMP processing facilities or were received from other DOE sites. Two general categories of material were established for this program, based upon their amenability to sampling and analysis. Tentative factor assays were defined as those values, which were routinely adjusted or verified by individual lot assays. Assigned factor assay values were applied to materials, which were sampled or evaluated periodically for factor verification. The initial phase of the program involved the sampling of a given material in which a consecutive number of lots were evaluated. The continuous phase of the program consisted of the sampling these same materials on a skip-lot basis during extended or continuous production after an initial assay value had been established. Work-in-process factor weights were also determined for partially machined elements for use in calculating physical inventories in the machining operations.

3.3.2 Evaluation Parameters

Many materials changed as process changes were implemented prompting the need for a continuous appraisal of parameters. Once an assay value was established, periodic re-evaluation detected significant shifts in assay levels caused by process changes or measurement inaccuracies to substantiate assay values.



The frequency of re-evaluating factor assays depended upon the generation rate and variability of material from lot to lot and the effect of assay changes on the ID's in MBA's. Factor assays assigned to enriched uranium materials were re-evaluated more frequently than depleted uranium materials.

3.3.3 Factor Weight Program for Uranium Fuel Elements

This program was an effective means for obtaining precise quantitative data for offsite shipments of fuel cores. It involved carefully weighing a random sample of cores and obtaining an accurate piece count for each shipment. An EDP shipping list was prepared, showing the number of pieces per ingot in each shipping box times the appropriate ingot core weight. Inspectors checked each weighing against the applicable control limits and any core weight outside the limits was re-weighed. Core weight agreement with Savannah River was closely monitored and an annual shipper-receiver report was prepared to document the results of this program.

**TABLE E4-3
SUMMARY OF MATERIAL BALANCE AREAS**

MBA	Plant	Type of Material	Process
02	2	Normal Uranium	Refinery
09	1	Normal Uranium	Storage
33	4	Depleted Uranium	UF ₄
34	5	Depleted Uranium	Reduction
35	5	Depleted Uranium	Casting
37	6	Depleted Uranium	Machining
39	1	Depleted Uranium	Storage
399	1	Depleted Uranium	Long-Term Storage
41	Lab.	Depleted Uranium	Laboratory
48	8	Depleted Uranium	Recovery
50	9	Depleted Uranium	Ingot Preparation
51	Lab.	Thorium	Laboratory
57	Pilot Plant	Thorium	Refinery
59	1	Thorium	Storage
61	8	Enriched Uranium	Recovery
62	Lab.	Enriched Uranium	Laboratory
63	4	Enriched Uranium	UO ₃ to UF ₄
65	9	Enriched Uranium	Ingot Preparation
69	1	Enriched Uranium	Storage
72	6	Enriched Uranium	Machining
76	Pilot Plant	Enriched Uranium	Recovery
82	5	Enriched Uranium	Reduction
83	9	Enriched Uranium	ZIRNLO Declad.
86	2	Enriched Uranium	Refinery

EXAMPLE: Reduction furnace pots filled with depleted UF₄ and magnesium granules in Plant 5
Plant 5, Reduction Area, Depleted U: 1st two digits are: 34. UF₄ in filled furnace pot is WIP material 3rd
digit: 2. For this area and material: MBA is 342.



4.0 ACCOUNTABILITY RECORDS AND REPORTS

4.1 NUCLEAR MATERIALS PRODUCTION REPORTS

Nuclear Materials Production Reports were prepared monthly for each MBA of the plants and processes. This report summarized totals of inventories, adjustments, receipts, production, consumption, and shipments for each materials process category. Also, the report consisted of a reconciliation of beginning and ending inventories in each MBA.

Book inventories of materials in Categories 1, 3 and 4 (raw material, finished material, and scrap) had to agree exactly with physical inventories in each MBA. For work-in-process materials, book inventories were calculated because of the uncertainties inherent in plant operations usually precluded exact agreements between book and physical inventories. In this event, the difference between the calculated book and the physical inventory was shown as an Inventory Difference (ID). If the physical inventory is less than the book inventory, the account ID was a "negative uncertainty" or loss. If the difference was greater, the ID was a "positive uncertainty" or gain.

4.2 SUBSIDIARY RECORDS

These records included Notices of Consumption, Production and Interplant Transfers, and Laboratory Analyses. Data processing cards and special forms of the Production Recording system provided the subsidiary records for the nuclear materials accountability system.

4.2.1 Notice of Consumption Record

Movement of material into a WIP status was recorded on appropriate forms for each MBA. Consumption was reported on a series of specific electronic data cards. Data from these cards were converted into the proper format to show consumption in accountability records.

4.2.2 Notice of Production Record

Both the production of finished products and generation of scrap materials were manually recorded on separate appropriate forms and electronic data cards. Data from these cards were converted into the necessary format to show materials production in the accountability records.



4.2.3 Interplant Transfer Record

The movement of nuclear material between MBA's of the plants and processes was preceded by the preparation of a transfer form or electronic data card in the plant or area responsible for the material being transferred.

4.2.4 Accountability Assay Summary Worksheets

A weekly EDP list of residue and oxide analyses was issued for making appropriate adjustments to previously reported tentative analyses.

4.2.5 Request for Element and Isotopic Analyses

This form was requested EDP to prepare an analysis card for each lot of new material produced, excepting those materials for which analyses are programmed. Element and isotopic analyses are forwarded to EDP through the use of this form.

4.2.6 Inventory Forms

A group of specialized forms facilitated taking physical inventories in the various plants, primarily by the chemical plants (2/3, 8, Pilot Plant). The completed forms were summarized into categories and/or stage of completion of work (WIP).

4.3 AUDITING ACCOUNTABILITY RECORDS

The processing and auditing of source documents were a function of nuclear materials accountability. The major portion of the source data was in electronic data card format. The remaining source of data for auditing was obtained from: 1) Nuclear Materials Shipping Orders, 2) Nuclear Materials Receiving and Disposition Reports, 3) Nuclear Material Transaction Reports (DOE-741 Form), and 4) Shipping and Receiving Records. Routine interim EDP activity lists and printouts were reviewed each month for reasonableness and completeness for each MBA.

4.3.1 Internal Transfers

Documents for interplant transfers of nuclear materials began with the preparation of an electronic data card packet by the plant initiating the movement. A similar card packet was used for transferring materials between MBAs located within the same plant. Special or non-routine shipments between plants were documented by manually-prepared transfer forms.



4.3.2 External Shipments and Receipts

Requirements for shipping and receiving nuclear materials were specified by Standard Operating Procedure NLCO-704, "SOP for the Administrative Functions of Shipping and Receiving Nuclear Materials at the FMPC." Details of the office routine for processing DOE-741 Forms and reconciling differences were assigned to the nuclear materials accountability function.

4.3.3 Internal Survey Program

In 1978, an internal survey program was instituted to determine compliance with MC&A procedural requirements and was assigned to the MC&A technical function. These surveys included weight and isotopic verification, records audit, and an operations analysis for segregation and identification of residue materials, and sampling surveillance. Records of receipts and shipments were checked; scale performance monitored, including independent weight checks; and sampling of nuclear materials was observed. These thorough and comprehensive surveys were conducted randomly twice a year. Results were summarized, corrective actions identified, and recommendations were included in the survey report.

5.0 ROUTINE AND NON-ROUTINE PROCESS LOSSES

5.1 ROUTINE OPERATING LOSSES

Small portions of solid uranium materials produced at FEMP were routinely lost to the atmosphere, discharged from Manhole-175 to the Great Miami River, or transferred to the FEMP waste pits. The extent of these losses was determined; quantities removed from inventory; and the loss documented in the monthly MBA Reports. Solid wastes and liquid filtrates and sump pumpings that contained insoluble uranium were transferred to the waste pits because processing them for uranium recovery was determined to be uneconomical. An onsite land burial received small quantities of essentially non-combustible and non-contaminated trash materials.

5.2 LOSSES TO THE ATMOSPHERE VIA STACKS AND SCRUBBERS

5.2.1 Stacks

Losses of nuclear materials to the atmosphere from dry dust collectors were determined by continuous sampling of plant stack emissions. When process material was detected in stack-monitor filters by inspectors, the extent of the uranium loss was determined from the uranium assay and material weight calculated from the amount collected by the filter. Most dry exhaust stacks were monitored regularly.



5.2.2 Scrubbers

The off-gases resulting from the operation of the various furnaces in Plant 8 were hot, moist, and contained entrained solids. These gases were diverted through cleaning devices to scrub entrained solids prior to being exhausted to the atmosphere. Efficiency ratings for the scrubbers varied by manufacturer, but averaged about 83% removal of solids; the remainder discharged to the atmosphere. The difference between the quantity of uranium recovered by the scrubbers at 100% efficiency compared with the assumed 83% efficiency determined the loss to the atmosphere.

5.3 LOSSES TO THE GREAT MIAMI RIVER

5.3.1 Sump Liquors

Each plant generated wastewater from its process operations and housekeeping practices. Wastewater was filtered through a press in the generating plant and recycled until no appreciable amount of uranium remained. After sampling and approvals, the wastewater was pumped to the General Sump, where a record of daily pumpings was maintained. At the General Sump, sump liquors received from the plant sumps were further neutralized before pumping to one of the waste pits designated for receiving liquid waste. Automatic samplers secured final samples of wastewater pumped from the General Sump to the waste pits. Amounts of uranium contained in the total volume of wastewater pumped were determined from plant records to document losses and support the monthly MBA reports.

5.3.2 Liquid Waste

Wastewater from the sanitary sewer, storm sewer distribution system, Clearwell at the waste pits, and General Sump comprised the total flow discharged to the Great Miami River via Manhole-175. Composite samples were obtained by a continuous sampler at the Storm Sewer Lift Station that was in proportion to flow variations of source streams. Flow volumes were obtained by an integrating and recording meter. The total measured loss discharged to the river was determined and reported monthly. Unmeasured losses occurred when excessive storm water was discharged to Paddy's Run Creek via the outfall ditch prior to the construction of the Storm Water Retention Basin in the mid-1980's. Water samples were obtained by the continuous sampler, but the volume of excessive storm sewer water discharged to the outfall ditch could only be estimated by the duration and intensity of the storm.

5.4 DISCARDS TO PITS

Depleted uranium process residues generated were determined to be economically unrecoverable and were routinely discarded to the waste pits. Residues were sampled and analyzed for uranium and U-235 prior to disposal. Other contaminated discards included enriched uranium ZIRNLO slurry, ceramics, and



depleted solidified sludge received from RMI. Minor amounts of enriched uranium waste liquors from the General Sump were pumped monthly to the pits.

5.5 ACCIDENTAL LOSSES

Occasionally, an operational mishap resulted in the inadvertent diversion of nuclear materials from production or storage to unknown areas or to a status precluding economic recovery. Serious incidents were reported immediately for investigation and formal report.

All stack and scrubber losses; discharges to the river; solid and liquid waste material to the waste pits including estimates of accidental losses were documented by a DOE-741 Form that transferred values from RIS Code FVA to VVB, assigned by DOE to the FEMP waste pits.

6.0 SUPPORT PROCEDURES AND REPORTS

6.1 ELECTRONIC DATA PROCESSING (EDP)

6.1.1 Internal EDP Procedures and Reports

Comprehensive reports of the accountability of nuclear materials were electronically prepared as the official record of nuclear materials transactions. Information supplied to the EDP system consisted of 1) beginning inventory data for all MBAs; 2) EDP or manual records of production, consumption, and transfer data, 3) results of element and isotopic analyses; and 4) plant source records. This information was adapted to electronic data processing cards for producing monthly summary reports.

Several steps were taken to prevent errors in records by EDP procedures designed to ensure agreement between receiving and shipping quantities for transactions. Lists of receipts and shipments had to agree in details and in totals. Records of external shipments and receipts were manually obtained and had to agree by RIS with totals electronically obtained.

6.1.2 Nuclear Materials Management and Safeguards System (NMMSS)

Each DOE facility was required to submit specific data of external receipts and shipments recorded on DOE-741 Form to the Computer Sciences Division in Oak Ridge, Tennessee. Data for enriched uranium scrap activity was provided semi-annually. All reporting for a given month had to be completed by the tenth calendar day of the following month. The procedure is described in detail in Reference E.1.



6.2 SAMPLING NUCLEAR MATERIALS

A representative sample of the material was obtained from each lot of material and submitted for analysis. Determinations were made of the uranium assay of feed, product, and residue materials; quantities of uranium discarded to the waste pits, river, and atmosphere; and the extent of material control by MBA's established for the plant and processes. Materials amenable to sampling and generated onsite or received from offsite were be sampled by one of several devices depending on the nature of the material. The two principal sampling devices are a slotted pipe and a sheathed or closed auger. A composite bulk sample obtained from each lot of material was submitted for uranium assay.

Before a given sampling device or procedure could be accepted for material control purposes, it was necessary to evaluate the accuracy and precision of the method used to sample a specific type of material. It was also desirable to provide periodic and/or continuous checks on the various sampling techniques. Bulk solids sampling presented the greatest difficulty. Some of the various methods for evaluating sampling procedures were duplicate sampling by identical procedures; dual sampling, using at least two different samplers; dilution of inert material with a known amount of standard oxide; and blending the mixture. Samples of questionable materials not amenable to sampling were evaluated by comparison with samples taken of the processed or oxidized product. In all cases, analytical variance statistical techniques are used in determining the significance of differences between sampling tests.

6.2.1 MC&A Analytical Requirements

Requirements for the analysis of uranium materials were established by MC&A for offsite receipts, physical inventory samples, and onsite residue generation and intermediate products. Samples that were submitted for analysis had to be accompanied by specific request forms containing complete information on the materials and analyses to be performed. Reports from process control laboratories were used to determine uranium assay and U-235 and other U-isotope contents of routine production samples. After the analytical work was completed, results were recorded on a specific form for materials accountability.

6.2.2 Nondestructive Analyses

Nondestructive analyses for U-235 verification were performed periodically in the production and storage areas using two portable Eberline Stabilized Assay Meters. An isotopic verification facility was installed at Plant 1 in 1972 to scan the uniformity of U-235 assay of enriched uranium received from other sites and licensee facilities. Isotopic verification was performed primarily for nuclear criticality control, but also served to maintain physical control of nuclear materials during various stages of process operations.



6.3 WEIGHING AND VOLUME MEASUREMENTS

6.3.1 NMC Surveillance of Scales and Weighing Performance

Weight and volume measurements of nuclear materials were subject to error. Weighing inaccuracies resulted from operator and scale errors or a combination of both. Controls and standards were used to minimize such errors. Operator scale-reading errors were avoided by using scales equipped with print-weigh devices. Scale test-weighing was performed routinely in order to detect scale errors and to obtain information on scale precision and accuracy.

Plant scales essential to the control of nuclear materials were prioritized according to their use. The top priority (Group I) was given to scales used for weighing offsite nuclear materials receipts and shipments. Scales used in obtaining weights for MBA transfers and for major side streams were assigned intermediate priority (Group II). Marginal priority (Group III) was assigned to scales that were significant to overall operations, but of lesser importance to nuclear materials control.

6.3.2 Check-Weighing

Check-weighing was the practice of reweighing nuclear materials to verify the original recorded weights using a different scale than used originally. Check-weighing was performed primarily for offsite shipments or receipts and for important products in inventory. Weight verification was periodically performed as part of internal surveys or audits. A review of the scale maintenance function was part of the annual survey conducted by DOE-ORO.

6.3.3 Measurement of Volume: Calibration of Tanks

In various production operations, liquid uranium materials were mixed and blended within close tolerances. Accurate volume measurements depended on the quality of tank calibration and upon the care exercised in physically measuring the tank. Process vessels were calibrated when a new tank was put into service, a change occurred in the internal structure of the tank, or to recheck the accuracy of a previous calibration. The calibration procedure is described in detail in Reference E.1.

6.4 STATISTICAL ANALYSIS

Statistical procedures were used to evaluate the reliability of measurements of nuclear materials and safeguards for their control by: 1) calculating limits of error for all major offsite shipments and receipts; 2) evaluating shipper-receiver differences; and 3) determining the significance of ID's. Limits of error were applied to all FEMP production shipments and to most measured receipts. Weighing accuracy was determined by repetitive weighing and shipper-receiver weighing experience.



6.4.1 Evaluation of Shipper-Receiver Differences

Each year, some 1,000 to 1,500 shipments and receipts were made to the FEMP and documented by the accompanying DOE-741 Form. Each form was reviewed to detect clerical and calculation errors and to identify significant shipper-receiver discrepancies. Errors were corrected and efforts made to determine whether discrepancies resulted from weighing, sampling, or analysis. An annual report, entitled "Comparison of Shipper and Receiver Data for Nuclear Materials at NLO, Inc. (FVA)", was prepared that summarized all shipments and receipts as well as relevant comments and analysis.

6.4.2 Evaluation of Inventory Differences (ID)

Physical inventories of uranium materials taken by plant personnel were observed by MC&A personnel. Measured quantities of uranium in the physical inventory were compared with the book record amounts for each MBA. The difference, or unaccounted-for material, is referred to as "ID" (Inventory Difference). ID's resulted from uncertainties in weight and volume measurements, sampling practices and analyses, bookkeeping errors, and other undetermined causes.

An evaluation of the significance of each ID considered the amount of activity in the MBA; percentage of the beginning inventory plus receipts reflected in the ID; and comparison of each ID percentage with past experience. Adjusted ID's in specific MBAs reflected the correction of tentative uranium assays by analyses for product and residue materials produced in those MBAs during the prior period. Close surveillance was maintained over the plant or area in question until the ID problem was resolved. Statistical control charts were prepared and maintained for major MBAs as a basis for determining the occurrence of a significant ID and to detect cyclical variations and trends.

6.5 FORECASTING REMOVAL OF MATERIALS FROM INVENTORY

Forecasts of the anticipated routine operating losses were submitted annually to DOE for the authority to discard the materials. Requests were prepared for losses of each isotopic level to the atmosphere (FVAA), river (FVAG), and to the pits (VVB). The quantities requested were proportional to the losses, discards, and production activity during the previous fiscal year. The forecasted quantities were based on the latest budget assumptions and operating schedules. At the end of the year, the forecasted quantities are compared with the actual removals in a formal report to DOE.



REFERENCES

NLCO-1173 (Rev. 1), B. Gessiness, "Nuclear Materials Control and Accountability Plan," June 1981.

IM-7004, "FEMP Lot Marking and Color Coding System," revised October 1998.

FIGURE A.1-1
FEMP RECEIPTS – ENRICHED URANIUM

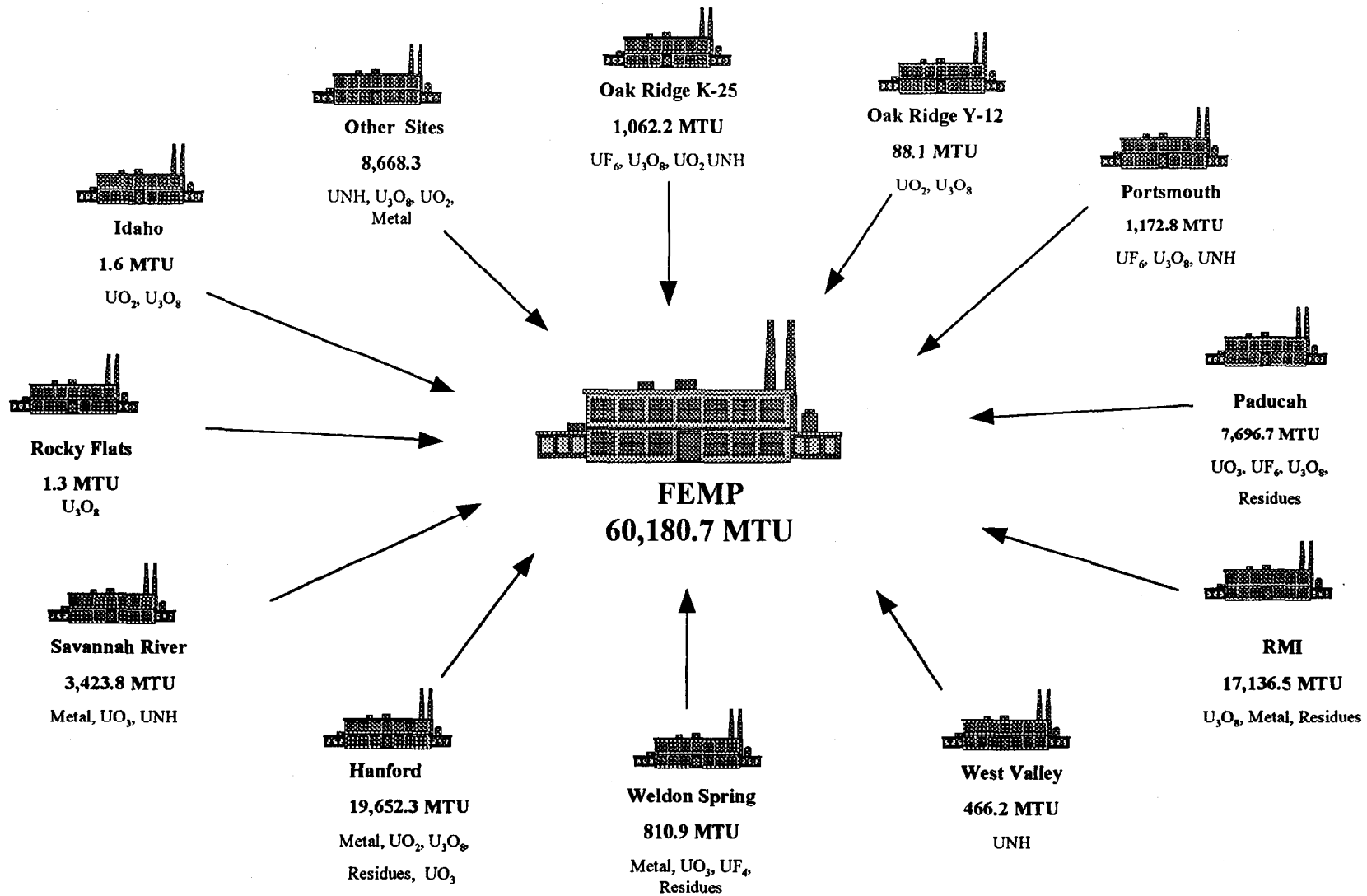


FIGURE A.1-2
FEMP RECEIPTS – NORMAL URANIUM

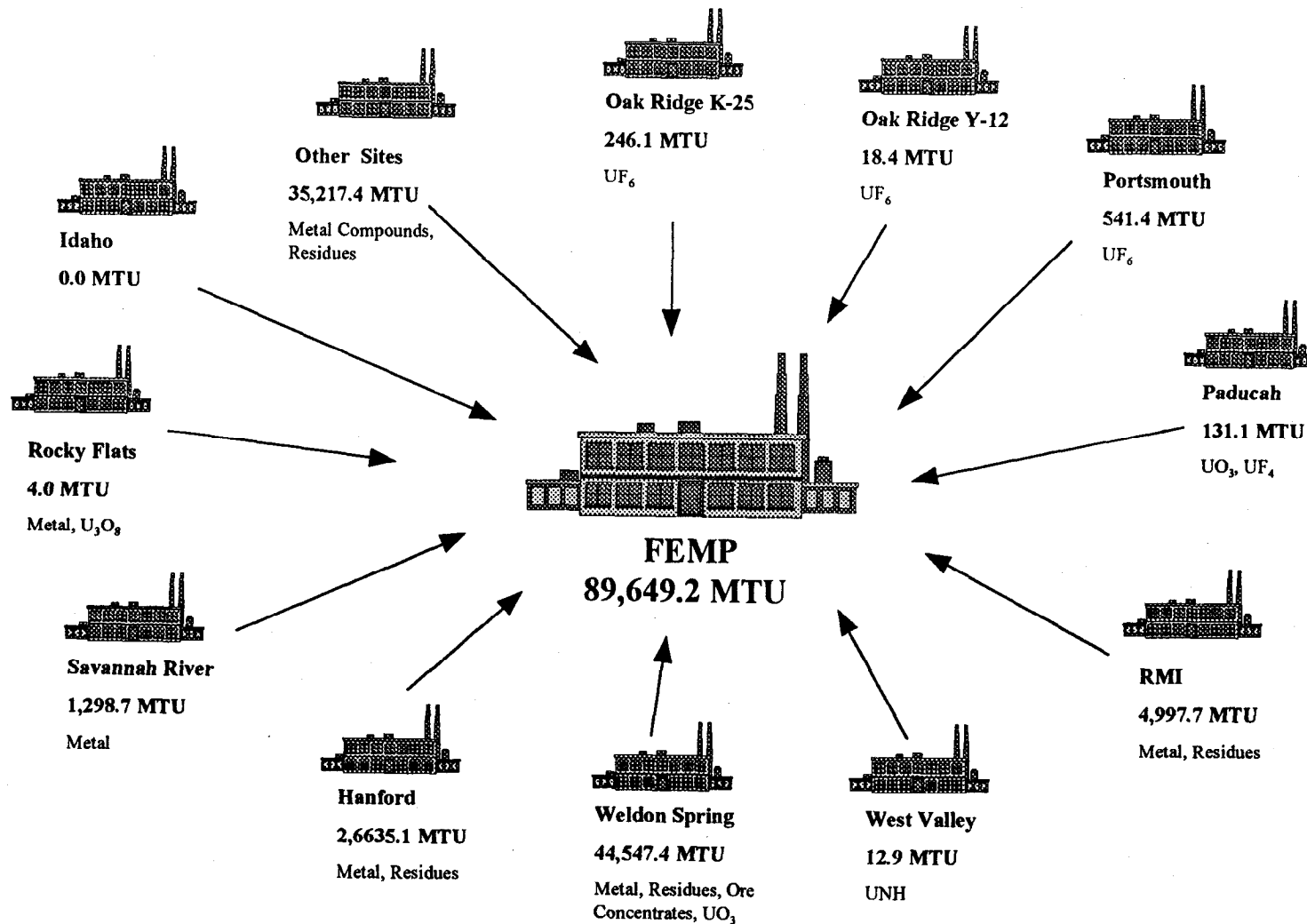
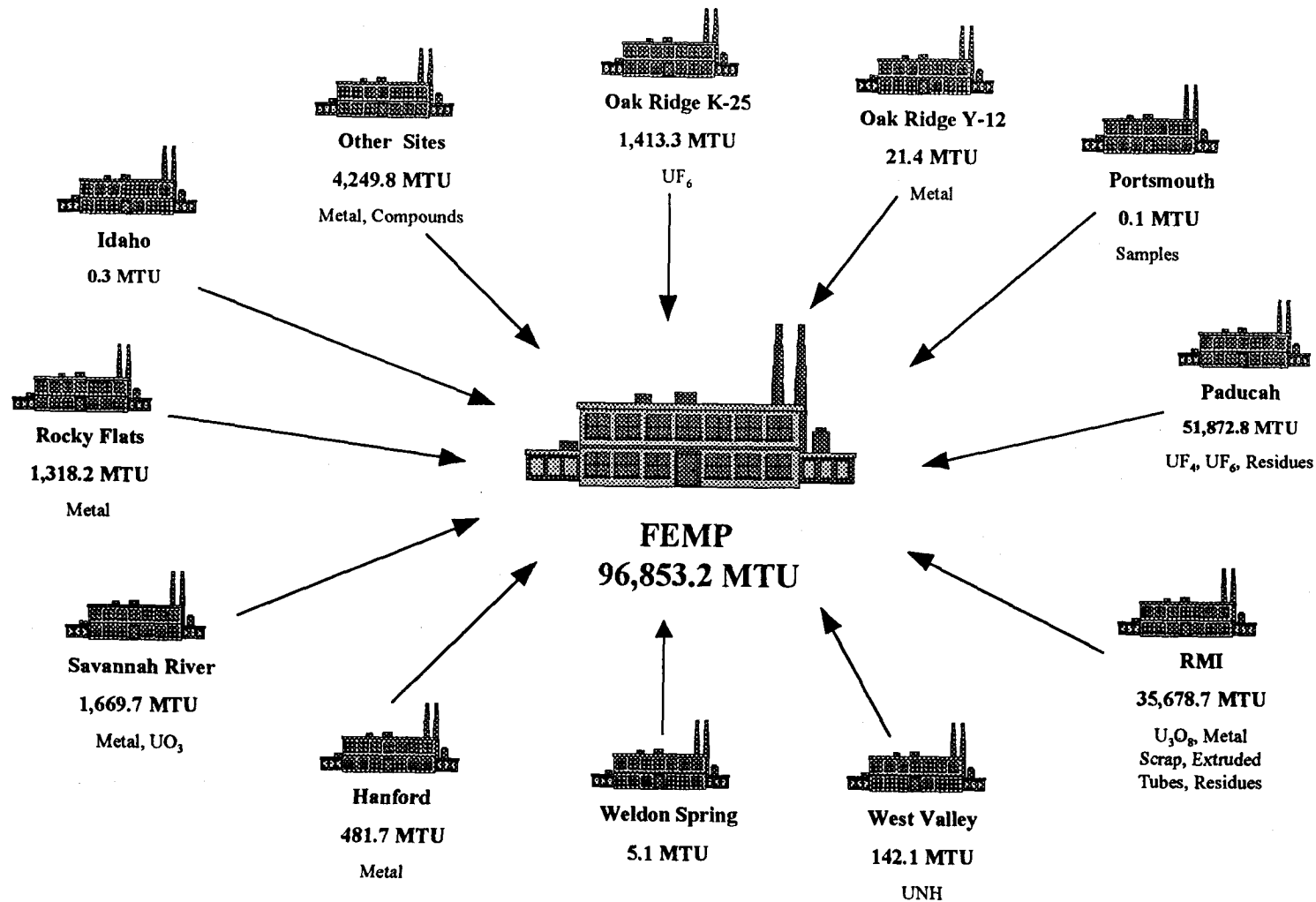


FIGURE A.1-3
FEMP RECEIPTS – DEPLETED URANIUM



**APPENDIX A.1
FEMP ENRICHED
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**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM**

EXTERNAL RECEIPTS ENRICHED URANIUM	FY1952-FY1961		FY1962-FY1969		FY1970-FY1979		FY1980-FY1989		FY1990-FY1999		TOTAL	
	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
Pu PROCESSING PLANTS *	94,180,012	800,530	15,674,527,904	138,190,641	3,526,585,604	34,374,146	4,341,247,588	39,666,200	1,542	13	23,636,542,650	212,971,530
GASEOUS DIFFUSION PLANTS	-	-	7,293,714,447	86,896,734	643,007,738	5,858,932	1,995,064,850	21,904,711	20	-	9,931,787,055	114,660,377
WEAPONS PLANTS	-	-	28,815,233	938,407	60,907,186	994,865	1,280,666	59,749	-	-	91,003,085	1,993,021
U PROCESSING PLANTS	-	-	14,818,053,676	142,041,616	1,507,002,769	14,888,263	1,622,268,823	16,379,153	19,051	149	17,947,344,319	173,309,181
OTHER SITES	4,664,593,288	46,311,326	2,084,187,087	19,902,756	6,245,202,890	45,907,872	211,097,192	1,803,435	127,717,127	1,259,009	13,332,797,584	115,184,398
TOTAL	4,758,773,300	47,111,856	39,899,298,347	387,970,154	11,982,706,187	102,024,078	8,170,959,119	79,753,248	127,737,740	1,259,171	64,939,474,693	618,118,507

* INCLUDES SCRAP NOT PROCESSED

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EXTERNAL RECEIPTS ENRICHED URANIUM	FY1952		FY1953		FY1954		FY1955		FY1956		FY1957	
SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
OAK RIDGE K-25	-	-	-	-	-	-	-	-	-	-	-	-
OAK RIDGE Y-12	-	-	-	-	-	-	-	-	-	-	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	-	-	-	-
PADUCAH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	-	-	-	-
REACTIVE METALS, INCORPORATED	-	-	-	-	-	-	-	-	-	-	-	-
WEST VALLEY	-	-	-	-	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-	-	-	-	-
HANFORD	-	-	-	-	-	-	-	-	-	-	462,208	3,929
SAVANAH RIVER	-	-	-	-	-	-	-	-	-	-	-	-
ROCKY FLATS	-	-	-	-	-	-	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-
OTHER SITES	-	-	18,607,700	184,216	1,925,000	19,058	39,873,400	394,747	33,219,300	328,871	178,990,892	1,772,657
TOTAL	-	-	18,607,700	184,216	1,925,000	19,058	39,873,400	394,747	33,219,300	328,871	179,453,100	1,776,586

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RECYCLED URANIUM PROJECT
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RECEIPTS OF ENRICHED URANIUM

EXTERNAL RECEIPTS ENRICHED URANIUM	FY1958		FY1959		FY1960		FY1961	
SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
OAK RIDGE K-25	-	-	-	-	-	-	-	-
OAK RIDGE Y-12	-	-	-	-	-	-	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-
PADUCAH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-
REACTIVE METALS, INCORPORATED	-	-	-	-	-	-	-	-
WEST VALLEY	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-
HANFORD	5,497,057	46,725	17,736,122	150,757	20,546,711	174,647	49,937,914	424,472
SAVANAH RIVER	-	-	-	-	-	-	-	-
ROCKY FLATS	-	-	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-
OTHER SITES	573,704,943	5,687,375	1,068,238,978	10,600,396	974,582,589	9,677,133	1,775,450,486	17,646,873
TOTAL	579,202,000	5,734,100	1,085,975,100	10,751,153	995,129,300	9,851,780	1,825,388,400	18,071,345

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EXTERNAL RECEIPTS ENRICHED URANIUM	FY1962		FY1963		FY1964		FY1965	
SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
OAK RIDGE K-25	259,515,000	2,499,548	-	-	-	-	-	-
OAK RIDGE Y-12	174,500	3,716	-	-	35,800	7,115	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	4,800	41	1,900	19	1,626,200	23,970	512,877,200	7,870,112
PADUCAH GASEOUS DIFFUSION PLANT	1,441,218,500	13,648,740	1,540,791,900	15,725,346	2,239,425,200	22,769,692	159,472,200	1,510,420
REACTIVE METALS, INCORPORATED	211,817,500	2,005,910	916,292,600	8,677,286	2,555,804,400	24,623,172	1,936,216,500	18,728,260
WEST VALLEY	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	56,731,200	537,787	10,881,100	106,225	702,721,600	6,578,923
HANFORD	290,155,900	2,586,056	1,171,764,000	10,130,652	1,309,501,000	11,317,464	1,945,190,500	16,693,272
SAVANAH RIVER	-	-	12,406,700	117,491	89,572,500	842,769	355,868,200	2,897,370
ROCKY FLATS	-	-	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-
OTHER SITES	467,115,200	4,406,574	29,016,400	237,018	27,002,400	255,711	85,154,100	833,065
TOTAL	2,670,001,400	25,150,585	3,727,004,700	35,425,599	6,233,848,600	59,946,118	5,697,500,300	55,111,422

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EXTERNAL RECEIPTS ENRICHED URANIUM	FY1966		FY1967		FY1968 1st		FY1968 2nd	
	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
OAK RIDGE K-25	401,911,214	8,802,871	211,096,544	4,445,940	148	23	-	-
OAK RIDGE Y-12	18,730,092	365,237	1,125,000	226,493	-	-	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	382,318,849	7,910,964	11,546,838	246,102	4,899	68	-	-
PADUCAH GASEOUS DIFFUSION PLANT	96,329,673	913,490	-	-	23,823,168	242,423	-	-
REACTIVE METALS, INCORPORATED	2,346,646,831	25,065,590	3,094,020,078	35,765,862	1,331,678,010	11,707,097	886,646,434	627,839
WEST VALLEY	48,228,455	451,660	100,613,727	991,795	71,901,243	1,321,235	54,123,194	378,536
WELDON SPRING	4,897,186	42,128	35,634,632	316,157	-	-	-	-
HANFORD	2,038,970,171	17,572,691	1,483,572,831	13,667,059	777,995,016	7,180,591	1,202,041,098	10,786,800
SAVANAH RIVER	412,874,466	3,439,419	933,125,944	7,428,497	374,969,882	2,848,851	122,007,219	779,956
ROCKY FLATS	-	-	-	-	-	-	-	-
IDAHO	-	-	595,654	21,920	-	-	-	-
OTHER SITES	166,081,797	1,842,305	164,622,922	1,872,660	386,566,049	3,140,140	5,073,075	31,270
TOTAL	5,916,988,734	66,406,355	6,035,954,170	64,982,485	2,966,938,415	26,440,428	2,269,891,020	12,604,401

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EXTERNAL RECEIPTS ENRICHED URANIUM	FY1969		FY1970		FY1971		FY1972	
	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
OAK RIDGE K-25	11,743,423	286,869	11,913,106	278,842	10,183,272	228,821	1,926,718	32,278
OAK RIDGE Y-12	8,154,187	313,926	48,322,118	535,366	1,989,796	48,081	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	6,791	96	20,207	1,544	1,433	32	1,083,497	11,343
PADUCAH GASEOUS DIFFUSION PLANT	-	-	-	-	108,529	900	387,545	2,992
REACTIVE METALS, INCORPORATED	728,065,605	7,259,380	479,843,824	4,492,780	338,933,408	3,477,614	91,988,455	923,625
WEST VALLEY	24,530,226	450,040	64,550,933	1,160,097	69,161,482	1,317,218	30,572,768	604,732
WELDON SPRING	-	-	-	-	-	-	-	-
HANFORD	2,064,971,857	20,359,196	1,948,500,758	16,342,276	269,550,263	2,760,289	80,783,368	805,306
SAVANAH RIVER	790,143,775	5,949,241	84,864,147	713,235	72,078,005	582,668	2,014,240	25,295
ROCKY FLATS	-	-	-	-	-	-	-	-
IDAHO	-	-	-	-	215,849	9,466	2,431	190
OTHER SITES	753,555,144	7,284,013	466,590,414	3,814,383	336,336,291	2,767,840	1,092,727,746	7,863,203
TOTAL	4,381,171,008	41,902,761	3,104,605,507	27,338,523	1,098,558,328	11,192,929	1,301,486,768	10,268,964

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EXTERNAL RECEIPTS ENRICHED URANIUM	FY1973		FY1974		FY1975		FY1976	
	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
OAK RIDGE K-25	2,843,912	50,675	2,815,539	58,423	593,258	12,527	1,212,223	26,285
OAK RIDGE Y-12	-	-	39,877	353	100,571	1,667	9,345,109	358,595
PORTSMOUTH GASEOUS DIFFUSION PLANT	13,884	(191)	-	-	5,391	178	2,625	99
PADUCAH GASEOUS DIFFUSION PLANT	175,672	1,262	5,694,289	40,531	1,485,545	10,575	147,664,977	1,238,067
REACTIVE METALS, INCORPORATED	83,002,528	844,042	145,930,422	1,447,098	106,914,434	1,081,409	47,378,064	489,421
WEST VALLEY	2,544,137	74,096	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-
HANFORD	366,841,642	3,519,345	123,162,487	1,220,769	55,131,774	548,598	16,229,821	174,832
SAVANAH RIVER	2,169,870	23,817	17,914,048	587,959	134,808	3,839	12,523,181	376,853
ROCKY FLATS	-	-	-	-	-	-	-	-
IDAHO	719	23	829,025	39,820	60	2	311	7
OTHER SITES	1,699,439,420	12,142,098	1,519,710,158	10,918,847	7,454,268	105,165	3,041,794	83,578
TOTAL	2,157,031,784	16,655,167	1,816,095,845	14,313,800	171,820,109	1,763,960	237,398,105	2,747,737

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EXTERNAL RECEIPTS ENRICHED URANIUM	FY1976A		FY1977		FY1978		FY1979	
SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
OAK RIDGE K-25	627,663	7,642	1,342,545	14,057	2,908,903	31,511	4,288,468	40,247
OAK RIDGE Y-12	-	-	62,962	1,325	(1,642)	(30)	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	-	-	89,127	4,968	(3,897)	(244)
PADUCAH GASEOUS DIFFUSION PLANT	35,611,963	258,057	15,820,703	115,908	(1,999,268)	(13,342)	396,189,909	3,404,945
REACTIVE METALS, INCORPORATED	3,761,396	39,904	62,020,129	625,368	71,168,777	698,411	76,061,332	768,591
WEST VALLEY	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-
HANFORD	1,531,320	14,502	121,546,550	1,215,731	92,060,115	920,698	56,331,606	579,013
SAVANAH RIVER	-	-	-	-	12,278,998	544,098	24,109,283	258,880
ROCKY FLATS	-	-	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-
OTHER SITES	82,997,068	592,219	1,009,802,188	7,425,487	10,346,232	74,694	16,757,311	120,358
TOTAL	124,529,410	912,324	1,210,595,077	9,397,876	186,851,242	2,261,008	573,734,012	5,171,790

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EXTERNAL RECEIPTS ENRICHED URANIUM	FY1980		FY1981		FY1982		FY1983	
SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
OAK RIDGE K-25	1,387,193	13,999	1,950,363	24,196	1,044,951	12,139	-	-
OAK RIDGE Y-12	-	-	-	-	2,223	52	20,048	3,351
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	-	-	3,452,885	118,153	14,839,488	622,521
PADUCAH GASEOUS DIFFUSION PLANT	4,517,616	33,697	398,416,080	3,417,020	663,626,576	5,589,741	396,293,373	3,255,703
REACTIVE METALS, INCORPORATED	48,569,012	508,183	79,528,481	798,682	116,111,740	1,126,581	451,817,728	4,798,891
WEST VALLEY	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-
HANFORD	56,550,788	567,855	91,326,265	889,737	77,244,586	768,934	158,947,059	1,594,594
SAVANAH RIVER	39,687,427	1,148,333	-	-	-	-	45,982,142	505,803
ROCKY FLATS	-	-	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-
OTHER SITES	2,995,234	68,624	7,663,457	60,785	14,182,473	154,782	125,697,361	1,011,187
TOTAL	153,707,270	2,340,691	578,884,646	5,190,420	875,665,434	7,770,382	1,193,597,199	11,792,050

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EXTERNAL RECEIPTS ENRICHED URANIUM	FY1984		FY1985		FY1986 FVA		FY1986 FVC	
SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
OAK RIDGE K-25	-	-	102,062,159	1,837,633	29,756	536	30,844,305	609,621
OAK RIDGE Y-12	-	-	-	-	-	-	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	133,593,362	2,577,398	25,058,806	475,656	-	-	57,673,798	1,126,597
PADUCAH GASEOUS DIFFUSION PLANT	2,336,815	20,053	923,587	7,454	-	-	-	-
REACTIVE METALS, INCORPORATED	226,004,535	2,213,931	265,640,047	2,568,281	57,675,629	623,078	163,352,719	1,584,889
WEST VALLEY	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-
HANFORD	945,004,123	8,355,942	1,090,420,154	9,445,988	317,029,441	2,905,100	993,065,331	8,571,846
SAVANAH RIVER	19,077,451	209,881	-	-	-	-	18,182	190
ROCKY FLATS	-	-	765,887	34,388	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-
OTHER SITES	4,227,431	91,430	19,153,672	123,788	3,213,373	18,231	11,479,188	114,534
TOTAL	1,330,243,717	13,468,635	1,504,024,312	14,493,188	377,948,199	3,546,945	1,256,433,523	12,007,677

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EXTERNAL RECEIPTS ENRICHED URANIUM	FY1987		FY1988		FY1989		FY1990		FY1991		FY1992	
	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
OAK RIDGE K-25	-	-	-	-	-	-	-	-	-	-	-	-
OAK RIDGE Y-12	-	-	-	-	-	-	-	-	-	-	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	28,603,271	558,298	-	-	-	-	-	-	-	-	-	-
PADUCAH GASEOUS DIFFUSION PLANT	128,410,466	1,604,296	-	-	-	-	-	-	-	-	-	-
REACTIVE METALS, INCORPORATED	139,107,873	1,450,264	72,453,784	687,802	2,007,275	18,571	19,051	149	-	-	-	-
WEST VALLEY	-	-	-	-	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-	-	-	-	-
HANFORD	368,495,003	3,466,611	138,486,478	1,175,749	(86,842)	(363)	-	-	-	-	-	-
SAVANAH RIVER	-	-	-	-	-	-	-	-	-	-	-	-
ROCKY FLATS	507,246	22,687	-	-	(14,738)	(729)	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-
OTHER SITES	4,815,457	36,780	10,197,560	69,992	7,471,986	53,302	809,362	4,198	123,769	1,016	5,537	50
TOTAL	669,939,316	7,138,936	221,137,822	1,933,543	9,377,681	70,781	828,413	4,347	123,769	1,016	5,537	50

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EXTERNAL RECEIPTS ENRICHED URANIUM	FY1993		FY1994		FY1995 FVC		FY1995 GVC		FY1996		FY1997	
SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
OAK RIDGE K-25	20	-	-	-	-	-	-	-	-	-	-	-
OAK RIDGE Y-12	-	-	-	-	-	-	-	-	-	-	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	-	-	-	-
PADUCAH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	-	-	-	-
REACTIVE METALS, INCORPORATED	-	-	-	-	-	-	-	-	-	-	-	-
WEST VALLEY	-	-	-	-	-	-	-	-	1,542	13	-	-
WELDON SPRING	-	-	-	-	-	-	-	-	-	-	-	-
HANFORD	-	-	-	-	-	-	-	-	-	-	-	-
SAVANAH RIVER	-	-	-	-	-	-	-	-	-	-	-	-
ROCKY FLATS	-	-	-	-	-	-	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-
OTHER SITES	47,038,366	461,406	6,417,746	61,752	354,010	3,398	59,666,561	598,635	4,290,196	39,903	5,491,775	54,439
TOTAL	47,038,386	461,406	6,417,746	61,752	354,010	3,398	59,666,561	598,635	4,291,738	39,916	5,491,775	54,439

APPENDIX A.1
FEMP ENRICHED RECEIPTS
SUMMARIZED

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

EXTERNAL RECEIPTS ENRICHED URANIUM	FY1998		FY1999		TOTAL	
SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
OAK RIDGE K-25	-	-	-	-	1,062,240,683	19,314,683
OAK RIDGE Y-12	-	-	-	-	88,100,641	1,865,247
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	-	-	1,172,821,354	21,547,724
PADUCAH GASEOUS DIFFUSION PLANT	-	-	-	-	7,696,725,018	73,797,970
REACTIVE METALS, INCORPORATED	-	-	-	-	17,136,478,601	165,727,961
WEST VALLEY	-	-	-	-	466,227,707	6,749,422
WELDON SPRING	-	-	-	-	810,865,718	7,581,220
HANFORD	-	-	-	-	19,746,494,475	176,937,663
SAVANAH RIVER	-	-	-	-	3,423,820,468	29,284,445
ROCKY FLATS	-	-	-	-	1,258,395	56,346
IDAHO	-	-	-	-	1,644,049	71,428
OTHER SITES	3,519,805	34,212	-	-	13,332,797,584	115,184,398
TOTAL	3,519,805	34,212	-	-	64,939,474,693	618,118,507

**APPENDIX A.1
FEMP ENRICHED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM**

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	SITE	FY1952		FY1953		FY1954		FY1955		FY1956	
			U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS	RF										
AUA	LOS ALAMOS NATIONAL LABORATORY	OTHER										
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY	OTHER										
BBA	BRIDGEPORT BRASS CO.	RMI										
BWD	BECHTEL JACOBS COMPANY LLC	K25										
BXA	LMUS, USEC, PORTSMOUTH GDP	PORTS										
BYC	USEC,PADUCAH GDP	PADU										
BZA	BROOKHAVEN RESEARCH LABORATORY	OTHER										
CAA	DOE CHICAGO OPERATIONS OFFICE	OTHER										
CAF	BATTELLE, COLUMBUS DIVISION	OTHER										
CAZ	ALLIS CHALMERS MANUFACTURING COMPANY	OTHER										
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY	OTHER										
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS	OTHER										
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)	K25										
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	OTHER										
CCS	BWX TECHNOLOGIES, INC.	OTHER										
CKY	UNION CARBIDE NUCLEAR CO.	PADU										
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)	Y12										
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS	OTHER										
DAA	DOE SAVANNAH RIVER OPERATIONS OFFICE	WV										
DYA	SYLCO DIVISION, HICKSVILLE NY	OTHER										
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY	SRP										
FAA	DOE OAK RIDGE OPERATIONS OFFICE	OTHER										
FAP	BABCOCK & WILCOX NUC MATLS, EXCPT PU	OTHER										
FAV	KERR-MCGEE CORP, NUCLEAR PRODUCTS	OTHER										
FAX	NUCLEAR FUEL SERVICES,INC. ERWIN,TN	OTHER										
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT	OTHER										
FBB	GENERAL ELECTRIC CO, IDAHO FALLS	ID										
FBE	NEW BRUNSWICK LABORATORY, USAEC	OTHER										
FBM	KERR-MCGEE NUCLEAR CORP, CIMARRON	OTHER										
FBZ	GULF NUCLEAR FUELS,COMMERCIAL PRODC	OTHER										
FTA&BBA	RMI TITANIUM COMPANY	RMI										
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING	WS										
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH	PORTS										
FYA	UNION CARBIDE, PGDP, PADUCAH, KY	PADU										
FYC	BECHTEL JACOBS CO. ,LLC,US	PADU										
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN	K25										
FZB	UNION CARBIDE CORP, Y-12 PLANT	Y12										
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN	OTHER										
FZE	BECHTEL JACOBS COMPANY LLC	K25										
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL	OTHER										

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM		FY1952		FY1953		FY1954		FY1955		FY1956	
			U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
GAT	GOODYEAR ATOMIC CORP., PORTSMOUTH	PORTS										
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA	HAN										
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA	HAN										
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD	HAN										
HUD	WESTINGHOUSE HANFORD COMPANY	HAN										
HUE	WESTINGHOUSE HANFORD, DEFENSE REACTOR DIV	HAN										
HVA	ATLANTIC RICHFIELD HANFORD COMPANY	HAN										
HWA	ISOCHEM, INCORPORATED, RICHLAND	HAN										
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND	HAN										
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB	OTHER										
HZA	GENERAL ELECTRIC CO, RICHLAND	HAN										
ISA	ALLIED CHEMICAL, ICPP, IDAHO FALLS	ID										
JSB	AEROJET NUCLEAR CO, IDAHO, TRA, TAN, PBF	ID										
JSG	EG&G IDAHO - TRA, ARA, LOFT, PBF, TAN	OTHER										
JWB	IDAHO NUCLEAR CORP, TEST REACTOR	ID										
LAE	ROCKETDYNE, ROCKWELL INTL, SANTA SUSANA	OTHER										
LAW	GENERAL ATOMICS SAN DIEGO	OTHER										
LAZ	GE, VALLECITOS NUCLEAR CENTER	OTHER										
LIC	GA TECHNOLOGIES, INC SAN DIEGO	OTHER										
MAW	COMBUSTION ENGINEERING, NUCLEAR	OTHER										
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.	OTHER										
MBL	MARTIN MARIETTA CORP, BALTIMORE	OTHER										
MBN	WHITTAKER CORP, NUC METALS DIVISION	OTHER										
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER	OTHER										
MBU	UNITED NUCLEAR CORP, RES & ENGR CNTR	OTHER										
MBY	VITRO CORPORATION OF AMERICA	OTHER										
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO	WS										
MCY	WESTINGHOUSE, FUEL MFG & DEV, CHESWICK	OTHER										
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV	OTHER										
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ	OTHER										
OCB		OTHER										
PAP	BABCOCK & WILCOX, APOLLO, NUC MATL & MFG	OTHER										
PZA	BETTIS ATOMIC POWER LABORATORY	OTHER										
QAB	INTERNATIONAL PROGRAMS CONTROL	OTHER										
QBA	REGULATORY OPERATIONS, HDQTRS, WASH	OTHER										
RAA	INTERNATIONAL PROGRAMS CONTROL	OTHER										
SDA&SRA	DUPONT SAVANNAH RIVER	SRP										
SDA&SRO	DUPONT SAVANNAH RIVER	SRP										
SNM		OTHER										
SRO&SRS	SYLOR DIVISION, HICKSVILLE, NY	OTHER										
TAX	KERR-MCGEE CORP, CIMARRON FACILITY	OTHER										
TBL	NUCLEAR MATERIAL AND EQUIPMENT	OTHER										

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

EXTERNAL RECEIPTS ENRICHED URANIUM			FY1952		FY1953		FY1954		FY1955		FY1956	
RIS	SITE		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
VAQ	CHEM-NUCLEAR SYSTEMS, BARNWELL	OTHER										
VVB	NLO, INC FERNALD BURIAL GROUND	OTHER										
VVC	FEMP, WASTE MANAGEMENT ACCOUNT	OTHER										
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY, NY	WV										
VEC	CIMARRON CORPORATION	OTHER										
YJM	NUCLEAR FUEL SERVICES, INTERNATIONAL ACCOUNT	WV										
YLE	WESTINGHOUSE, NES, WALTZ MILL SITE	OTHER										
YLM	WESTINGHOUSE, COMMERCIAL FUEL DIV.	OTHER										
YUD	SIEMENS POWER CORPORATION	OTHER										
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA	OTHER										
ZEF	COMBUSTION ENGINEERING, LEU, WINDSOR	OTHER										
ZGR	GENERAL ELECTRIC, NUCLEAR ENERGY, SAN JOSE	OTHER										
ZLD	LEDoux & COMPANY	OTHER										
ZQM	NUCLEAR FUEL SERVICES, INC.	WV										
ZQN	B&W NES, INC., NUCLEAR SERVICES	OTHER										
ZWQ	ABB COMBUSTION ENGINEERING, INC	OTHER										
ZWS	GENERAL ATOMIC CO, ELMSFORD, NY	OTHER										
ZYP	WESTINGHOUSE, COMMERCAL MFG, CHESWICK	OTHER										
ZZA	UNIVERSITY OF WISCONSIN, REACTOR LAB	OTHER										
FVCH	FEMP DISCARD TO HOLDING AREA	OTHER										
GVCH	FEMP DISCARD TO HOLDING AREA	OTHER										
MISC	NORMAL TO ENRICHED	OTHER										
MISC	DEPLETED TO ENRICHED	OTHER										
MISC	MISC	OTHER			18,607,700	184,216	1,925,000	19,058	39,873,400	394,747	33,219,300	328,871
TOTAL	TOTAL		-	-	18,607,700	184,216	1,925,000	19,058	39,873,400	394,747	33,219,300	328,871

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

EXTERNAL RECEIPTS ENRICHED URANIUM		FY1957		FY1958		FY1959		FY1960	
RIS	SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS								
AUA	LOS ALAMOS NATIONAL LABORATORY								
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY								
BBA	BRIDGEPORT BRASS CO								
BWD	BECHTEL JACOBS COMPANY LLC								
BXA	LMUS, USEC, PORTSMOUTH GDP								
BYC	USEC, PADUCAH GDP								
BZA	BROOKHAVEN RESEARCH LABORATORY								
CAA	DOE CHICAGO OPERATIONS OFFICE								
CAF	BATTELLE, COLUMBUS DIVISION								
CAZ	ALLIS CHALMERS MANUFACTURING COMPANY								
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY								
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS								
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)								
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY								
CCS	BWX TECHNOLOGIES, INC								
CKY	UNION CARBIDE NUCLEAR CO.								
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)								
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS								
DAA	DOE SAVANNAH RIVER OPERATIONS OFFICE								
DYA	SYLOR DIVISION, HICKSVILLE NY								
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY								
FAA	DOE OAK RIDGE OPERATIONS OFFICE								
FAP	BABCOCK & WILCOX NUC MATLS, EXCPT PU								
FAV	KERR-MCGEE CORP, NUCLEAR PRODUCTS								
FAX	NUCLEAR FUEL SERVICES, INC. ERWIN, TN								
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT								
FBB	GENERAL ELECTRIC CO, IDAHO FALLS								
FBE	NEW BRUNSWICK LABORATORY, USAEC								
FBM	KERR-MCGEE NUCLEAR CORP, CIMARRON								
FBZ	GULF NUCLEAR FUELS, COMMERCIAL PRODC								
FTA&BBA	RMI TITANIUM COMPANY								
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING								
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH								
FYA	UNION CARBIDE, PGDP, PADUCAH, KY								
FYC	BECHTEL JACOBS CO., LLC, US								
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN								
FZB	UNION CARBIDE CORP, Y-12 PLANT								
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN								
FZE	BECHTEL JACOBS COMPANY LLC								
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL								

APPENDIX A.1 FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1957		FY1958		FY1959		FY1960	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
GAT	GOODYEAR ATOMIC CORP. PORTSMOUTH								
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA	462,208	3,929	5,497,057	46,725	17,736,122	150,757	20,546,711	174,647
RIA&HGE	GENERAL ELECTRIC CO, RICHLAND WA								
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD								
HJD	WESTINGHOUSE HANFORD COMPANY								
HUE	WESTINGHOUSE HANFORD, DEFENSE REACTOR DIV								
HVA	ATLANTIC RICHFIELD HANFORD COMPANY								
HWA	ISOCHEM, INCORPORATED, RICHLAND								
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND								
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB								
HZA	GENERAL ELECTRIC CO, RICHLAND								
ISA	ALLIED CHEMICAL, ICPP, IDAHO FALLS								
JSB	AEROJET NUCLEAR CO, IDAHO, TRA, TAN, PBF								
JSG	EG&G IDAHO - TRA, ARA, LOFT, PBF, TAN								
JWB	IDAHO NUCLEAR CORP, TEST REACTOR								
LAE	ROCKETDYNE, ROCKWELL INTL, SANTA SUSANA								
LAW	GENERAL ATOMICS, SAN DIEGO								
LAZ	GE, VALLECITOS NUCLEAR CENTER								
LIC	GA TECHNOLOGIES, INC SAN DIEGO								
MAW	COMBUSTION ENGINEERING, NUCLEAR								
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.								
MBL	MARTIN MARIETTA CORP, BALTIMORE								
MBN	WHITTAKER CORP, NUC METALS DIVISION								
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER								
MBU	UNITED NUCLEAR CORP, RES & ENGR CNTR								
MBY	VITRO CORPORATION OF AMERICA								
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO								
MCY	WESTINGHOUSE, FUEL MFG & DEV, CHESWICK								
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV								
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ								
OCB									
PAP	BABCOCK & WILCOX, APOLLO, NUC MATL & MFG								
PZA	BETTIS ATOMIC POWER LABORATORY								
QAB	INTERNATIONAL PROGRAMS CONTROL								
QBA	REGULATORY OPERATIONS, HDQTRS, WASH								
RAA	INTERNATIONAL PROGRAMS CONTROL								
SDA&SRA	DUPONT SAVANNAH RIVER								
SDA&SRO	DUPONT SAVANNAH RIVER								
SNM									
SRO&SRS	SYLCOR DIVISION, HICKSVILLE, NY								
TAX	KERR-MCGEE CORP, CIMARRON FACILITY								
TBL	NUCLEAR MATERIAL AND EQUIPMENT								

APPENDIX A.1 FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

EXTERNAL RECEIPTS ENRICHED URANIUM		FY1957		FY1958		FY1959		FY1960	
RIS	SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
VAQ	CHEM-NUCLEAR SYSTEMS, BARNWELL								
VVB	NLO, INC FERNALD BURIAL GROUND								
VVC	FEMP, WASTE MANAGEMENT ACCOUNT								
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY, NY								
YEC	CIMARRON CORPORATION								
YJM	NUCLEAR FUEL SERVICES, INTERNATIONAL ACCOUNT								
YLE	WESTINGHOUSE, NES, WALTZ MILL SITE								
YLM	WESTINGHOUSE, COMMERCIAL FUEL DIV.								
YUD	SIEMENS POWER CORPORATION								
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA								
ZEF	COMBUSTION ENGINEERING, LEU, WINDSOR								
ZGR	GENERAL ELECTRIC, NUCLEAR ENERGY, SAN JOSE								
ZLD	LEDoux & COMPANY								
ZQM	NUCLEAR FUEL SERVICES, INC.								
ZQN	B&W NES, INC., NUCLEAR SERVICES								
ZWQ	ABB COMBUSTION ENGINEERING, INC								
ZWS	GENERAL ATOMIC CO, ELMSFORD, NY								
ZYP	WESTINGHOUSE, COMMERCIAL MFG, CHESWICK								
ZZA	UNIVERSITY OF WISCONSIN, REACTOR LAB								
FVCH	FEMP DISCARD TO HOLDING AREA								
GVCH	FEMP DISCARD TO HOLDING AREA								
MISC	NORMAL TO ENRICHED								
MISC	DEPLETED TO ENRICHED								
MISC	MISC	178,990,892	1,772,657	573,704,943	5,687,375	1,068,238,978	10,600,396	974,582,589	9,677,133
TOTAL	TOTAL	179,453,100	1,776,586	579,202,000	5,734,100	1,085,975,100	10,751,153	995,129,300	9,851,780

APPENDIX A.1 **FEMP ENRICHED RECEIPTS**

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1961		FY1962		FY1963		FY1964	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS								
AUA	LOS ALAMOS NATIONAL LABORATORY								
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY								
BBA	BRIDGEPORT BRASS CO.			211,817,500	2,005,910	916,292,600	8,677,286	2,555,804,400	24,623,172
BWD	BECHTEL JACOBS COMPANY LLC								
BXA	LMUS, USEC, PORTSMOUTH GDP								
BYC	USEC, PADUCAH GDP								
BZA	BROOKHAVEN RESEARCH LABORATORY								
CAA	DOE CHICAGO OPERATIONS OFFICE								
CAF	BATTELLE, COLUMBUS DIVISION								
CAZ	ALLIS CHALMERS MANUFACTURING COMPANY								
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY								
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS								
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)			259,515,000	2,499,548				
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY								
CCS	BWX TECHNOLOGIES, INC.								
CKY	UNION CARBIDE NUCLEAR CO.			1,441,218,500	13,648,740	1,540,791,900	15,725,346	2,239,425,200	22,769,692
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)			174,500	3,716			35,800	7,115
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS								
DAA	DOE SAVANNAH RIVER OPERATIONS OFFICE								
DYA	SYLOR DIVISION, HICKSVILLE NY								
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY								
FAA	DOE OAK RIDGE OPERATIONS OFFICE								
FAP	BABCOCK & WILCOX NUC MATLS, EXCPT PU								
FAV	KERR-MCGEE CORP, NUCLEAR PRODUCTS								
FAX	NUCLEAR FUEL SERVICES, INC. ERWIN, TN								
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT								
FBB	GENERAL ELECTRIC CO, IDAHO FALLS								
FBE	NEW BRUNSWICK LABORATORY, USAEC								
FBM	KERR-MCGEE NUCLEAR CORP, CIMARRON								
FBZ	GULF NUCLEAR FUELS, COMMERCIAL PRODC								
FTA&BBA	RMI TITANIUM COMPANY								
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING								
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH								
FYA	UNION CARBIDE, PGDP, PADUCAH, KY								
FYC	BECHTEL JACOBS CO. LLC, US								
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN								
FZB	UNION CARBIDE CORP, Y-12 PLANT								
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN								
FZE	BECHTEL JACOBS COMPANY LLC								
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL								

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

EXTERNAL RECEIPTS ENRICHED URANIUM		FY1961		FY1962		FY1963		FY1964	
RIS	SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
GAT	GOODYEAR ATOMIC CORP. PORTSMOUTH			4,800	41	1,900	19	1,626,200	23,970
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA	49,937,914	424,472	290,155,900	2,586,056	926,625,200	7,989,497		
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA					245,138,800	2,141,155	1,309,501,000	11,317,464
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD								
HUD	WESTINGHOUSE HANFORD COMPANY								
HUE	WESTINGHOUSE HANFORD, DEFENSE REACTOR DIV								
HVA	ATLANTIC RICHFIELD HANFORD COMPANY								
HWA	ISOCHEM, INCORPORATED, RICHLAND								
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND								
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB								
HZA	GENERAL ELECTRIC CO, RICHLAND								
JSA	ALLIED CHEMICAL, ICPP, IDAHO FALLS								
JSB	AEROJET NUCLEAR CO, IDAHO, TRA, TAN, PBF								
JSG	EG&G IDAHO - TRA, ARA, LOFT, PBF, TAN								
JWB	IDAHO NUCLEAR CORP, TEST REACTOR								
LAE	ROCKETDYNE, ROCKWELL INTL, SANTA SUSANA								
LAW	GENERAL ATOMICS SAN DIEGO								
LAZ	GE, VALLECITOS NUCLEAR CENTER								
LIC	GA TECHNOLOGIES, INC SAN DIEGO								
MAW	COMBUSTION ENGINEERING, NUCLEAR								
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.			454,613,300	4,305,185				
MBL	MARTIN MARIETTA CORP, BALTIMORE								
MBN	WHITTAKER CORP, NUC METALS DIVISION								
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER								
MBU	UNITED NUCLEAR CORP, RES & ENGR CNTR								
MBY	VITRO CORPORATION OF AMERICA								
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO					56,731,200	537,787	10,881,100	106,225
MCY	WESTINGHOUSE, FUEL MFG & DEV, CHESWICK								
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV					9,317,600	88,238		
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ					20,100	239	28,000	263
OCB				5,285,200	50,051				
PAP	BABCOCK & WILCOX, APOLLO, NUC MATL & MFG								
PZA	BETTIS ATOMIC POWER LABORATORY								
QAB	INTERNATIONAL PROGRAMS CONTROL								
QBA	REGULATORY OPERATIONS, HDQTRS, WASH								
RAA	INTERNATIONAL PROGRAMS CONTROL								
SDA&SRA	DUPONT SAVANNAH RIVER					15,000	142		
SDA&SRO	DUPONT SAVANNAH RIVER					12,391,700	117,349	89,572,500	842,769
SNM									
SRO&SRS	SYLOR DIVISION, HICKSVILLE, NY					3,637,500	34,447	26,867,400	254,435
TAX	KERR-MCGEE CORP, CIMARRON FACILITY								
TBL	NUCLEAR MATERIAL AND EQUIPMENT								

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

EXTERNAL RECEIPTS ENRICHED URANIUM		FY1961		FY1962		FY1963		FY1964	
RIS	SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
VAQ	CHEM-NUCLEAR SYSTEMS, BARNWELL								
VVB	NLO, INC FERNALD BURIAL GROUND								
VVC	FEMP, WASTE MANAGEMENT ACCOUNT								
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY, NY								
YEC	CIMARRON CORPORATION								
YJM	NUCLEAR FUEL SERVICES, INTERNATIONAL ACCOUNT								
YLE	WESTINGHOUSE, NES, WALTZ MILL SITE								
YLM	WESTINGHOUSE, COMMERCIAL FUEL DIV								
YUD	SIEMENS POWER CORPORATION								
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA								
ZEF	COMBUSTION ENGINEERING, LEU, WINDSOR								
ZGR	GENERAL ELECTRIC, NUCLEAR ENERGY, SAN JOSE								
ZLD	LEDoux & COMPANY								
ZQM	NUCLEAR FUEL SERVICES, INC.								
ZQN	B&W NES, INC., NUCLEAR SERVICES								
ZWQ	ABB COMBUSTION ENGINEERING, INC								
ZWS	GENERAL ATOMIC CO, ELMSFORD, NY								
ZYP	WESTINGHOUSE, COMMERCAL MFG, CHESWICK								
ZZA	UNIVERSITY OF WISCONSIN, REACTOR LAB								
FVCH	FEMP DISCARD TO HOLDING AREA								
GVCII	FEMP DISCARD TO HOLDING AREA								
MISC	NORMAL TO ENRICHED			7,216,700	51,338	16,041,200	114,094	107,000	1,013
MISC	DEPLETED TO ENRICHED								
MISC	MISC	1,775,450,486	17,646,873						
TOTAL	TOTAL	1,825,388,400	18,071,345	2,670,001,400	25,150,585	3,727,004,700	35,425,599	6,233,848,600	59,946,118

APPENDIX A.1 FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT FEMP HISTORICAL DATA RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1965		FY1966		FY1967		FY1968 1ST HALF	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS								
AUA	LOS ALAMOS NATIONAL LABORATORY								
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY								
BBA	BRIDGEPORT BRASS CO	13,394,900	166,015						
BWD	BECHTEL JACOBS COMPANY LLC								
BXA	LMUS, USEC, PORTSMOUTH GDP								
BYC	USEC, PADUCAH GDP								
BZA	BROOKHAVEN RESEARCH LABORATORY								
CAA	DOE CHICAGO OPERATIONS OFFICE								
CAF	BATTELLE, COLUMBUS DIVISION								
CAZ	ALLIS CHALMERS MANUFACTURING COMPANY					1,020,843	38,659		
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY								
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS								
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)								
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY								
CCS	BWX TECHNOLOGIES, INC.								
CKY	UNION CARBIDE NUCLEAR CO.	25,557,900	242,251						
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)								
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS	2,071,100	29,851						
DAA	DOE SAVANNAH RIVER OPERATIONS OFFICE			48,228,455	451,660	100,613,727	991,795	71,901,243	1,321,235
DYA	SYLOR DIVISION, HICKSVILLE NY	25,039,800	235,389	87,054,347	822,694				
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY	355,868,200	2,897,370	412,874,466	3,439,419	933,125,944	7,428,497	374,969,882	2,848,851
FAA	DOE OAK RIDGE OPERATIONS OFFICE								
FAP	BABCOCK & WILCOX NUC MATLS, EXCPT PU			1,356,233	60,973	(452)	(34)		
FAV	KERR-MCGEE CORP, NUCLEAR PRODUCTS			65,482	2,449				
FAX	NUCLEAR FUEL SERVICES, INC. ERWIN, TN					934,069	39,195	290,057	18,011
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT	3,300	41	1,947,765	24,347				
FBF	GENERAL ELECTRIC CO, IDAHO FALLS					595,654	21,920		
FBE	NEW BRUNSWICK LABORATORY, USAEC	13,500	140	218	11	262	11	156	6
FBM	KERR-MCGEE NUCLEAR CORP, CIMARRON					1,220,939	48,076		(28)
FBZ	GULF NUCLEAR FUELS, COMMERCIAL PRODC			152,738	7,211				
FTA&BBA	RMI TITANIUM COMPANY	1,922,821,600	18,562,245	2,346,646,831	25,065,590	3,094,020,078	35,765,862	1,331,678,010	11,707,097
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING	702,721,600	6,578,923	4,897,186	42,128	35,634,632	316,157		
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH	512,877,200	7,870,112	382,318,849	7,910,964	11,546,838	246,102	4,899	68
FYA	UNION CARBIDE, PGDP, PADUCAH, KY	133,914,300	1,268,169	96,329,673	913,490			23,823,168	242,423
FYC	BECHTEL JACOBS CO., LLC, US								
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN			401,911,214	8,802,871	211,096,544	4,445,940	148	23
FZB	UNION CARBIDE CORP, Y-12 PLANT			18,730,092	365,237	1,125,000	226,493		
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN			419,562	11,076				
FZE	BECHTEL JACOBS COMPANY LLC								
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL								

APPENDIX A.1 FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1965		FY1966		FY1967		FY1968 1ST HALF	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
GAT	GOODYEAR ATOMIC CORP. PORTSMOUTH								
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA								
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA	4,855,500	45,664						
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD								
HUD	WESTINGHOUSE HANFORD COMPANY								
HUE	WESTINGHOUSE HANFORD, DEFENSE REACTOR DIV								
HVA	ATLANTIC RICHFIELD HANFORD COMPANY							551,923,027	4,612,092
HWA	ISOCHEM, INCORPORATED, RICHLAND			1,127,698,336	9,523,516	1,283,906,846	10,706,383	138,223,523	1,150,927
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND			14,226,349	134,802	25,264,140	263,948	87,867,484	1,418,552
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB			20,050	603	5,246,675	52,467	(23,587)	285
HZA	GENERAL ELECTRIC CO, RICHLAND	1,940,335,000	16,647,608	897,045,486	7,914,373	174,401,845	2,696,728	(19,018)	(980)
JSA	ALLIED CHEMICAL, ICPP, IDAHO FALLS								
JSB	AEROJET NUCLEAR CO, IDAHO, TRA, TAN, PBF								
JSG	EG&G IDAHO - TRA, ARA, LOFT, PBF, TAN								
JWB	IDAHO NUCLEAR CORP, TEST REACTOR								
LAE	ROCKETDYNE, ROCKWELL INTL, SANTA SUSANA							1,181,708	32,889
LAW	GENERAL ATOMICS SAN DIEGO	423,000	4,006						
LAZ	GE, VALLECITOS NUCLEAR CENTER			31,111	1,061	2,081,614	75,988	7,442,904	145,016
LIC	GA TECHNOLOGIES, INC SAN DIEGO			11,974,886	395,020	17,068,585	579,286	7,239,001	249,483
MAW	COMBUSTION ENGINEERING, NUCLEAR							60,075	1,033
MBA	BRIDGEPORT BRASS CO, ALUMINUM DIV.								
MBL	MARTIN MARIETTA CORP, BALTIMORE			97,302	1,556				
MBN	WHITTAKER CORP, NUC METALS DIVISION	4,200	40						
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER					1,007,414	39,763		
MBU	UNITED NUCLEAR CORP, RES & ENGR CNTR	4,900	146						
MBY	VITRO CORPORATION OF AMERICA	645,800	31,702						
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO								
MCY	WESTINGHOUSE, FUEL MFG & DEV, CHESWICK			4,365,315	97,844	(3,356)	(143)	5,954	220
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV								
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ								
OCB									
PAP	BABCOCK & WILCOX, APOLLO, NUC MATL & MFG								
PZA	BETTIS ATOMIC POWER LABORATORY								
QAB	INTERNATIONAL PROGRAMS CONTROL			17,604	496				
QBA	REGULATORY OPERATIONS, HDQTRS, WASH								
RAA	INTERNATIONAL PROGRAMS CONTROL								
SDA&SRA	DUPONT SAVANNAH RIVER								
SDA&SRO	DUPONT SAVANNAH RIVER								
SNM		313,700	2,976						
SRO&SRS	SYLCOR DIVISION, HICKSVILLE, NY								
TAX	KERR-MCGEE CORP, CIMARRON FACILITY					321,121	10,643	-	27
TBL	NUCLEAR MATERIAL AND EQUIPMENT					205,957	9,554	368	17

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

EXTERNAL RECEIPTS ENRICHED URANIUM		FY1965		FY1966		FY1967		FY1968 1ST HALF	
RIS	SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
VAQ	CHEM-NUCLEAR SYSTEMS, BARNWELL								
VVB	NLO, INC FERNALD BURIAL GROUND								
VVC	FEMP, WASTE MANAGEMENT ACCOUNT								
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY, NY								
YEC	CIMARRON CORPORATION								
YJM	NUCLEAR FUEL SERVICES, INTERNATIONAL ACCOUNT								
YLE	WESTINGHOUSE, NES, WALTZ MILL SITE								
YLM	WESTINGHOUSE, COMMERCIAL FUEL DIV.								
YUD	SIEMENS POWER CORPORATION								
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA								
ZEF	COMBUSTION ENGINEERING, LEU, WINDSOR								
ZGR	GENERAL ELECTRIC, NUCLEAR ENERGY, SAN JOSE								
ZLD	LEDoux & COMPANY								
ZQM	NUCLEAR FUEL SERVICES, INC.								
ZQN	B&W NES, INC., NUCLEAR SERVICES								
ZWQ	ABB COMBUSTION ENGINEERING, INC								
ZWS	GENERAL ATOMIC CO, ELMSFORD, NY								
ZYP	WESTINGHOUSE, COMMERCAL MFG, CHESWICK								
ZZA	UNIVERSITY OF WISCONSIN, REACTOR LAB								
FVCH	FEMP DISCARD TO HOLDING AREA								
GVCH	FEMP DISCARD TO HOLDING AREA								
MISC	NORMAL TO ENRICHED	56,634,800	528,774	58,177,893	416,303	135,519,251	979,195	349,294,039	2,574,137
MISC	DEPLETED TO ENRICHED			401,291	661			21,075,374	119,044
MISC	MISC								
TOTAL	TOTAL	5,697,500,300	55,111,422	5,916,988,734	66,406,355	6,035,954,170	64,982,485	2,966,938,415	26,440,428

APPENDIX A.1 **FEMP ENRICHED RECEIPTS**

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1968 2ND HALF		FY1969		FY1970		FY1971	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS								
AUA	LOS ALAMOS NATIONAL LABORATORY								
AVA	MONSANTO RESEARCH CORP. MOUND FACILITY								
BBA	BRIDGEPORT BRASS CO.								
BWD	BECHTEL JACOBS COMPANY LLC								
BXA	LMUS, USEC, PORTSMOUTH GDP								
BYC	USEC, PADUCAH GDP								
BZA	BROOKHAVEN RESEARCH LABORATORY			5,869,619	89,278	362,368	4,529		
CAA	DOE CHICAGO OPERATIONS OFFICE								
CAF	BATTELLE, COLUMBUS DIVISION					60	1		
CAZ	ALLIS CHALMERS MANUFACTURING COMPANY								
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY								
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS								
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)								
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY								
CCS	BWX TECHNOLOGIES, INC.								
CKY	UNION CARBIDE NUCLEAR CO.								
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)								
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS			47,065	678	155,011	9,246	381,186	18,574
DAA	DOE SAVANNAH RIVER OPERATIONS OFFICE	51,022,508	378,536	11,338,071	89,869	30,076,147	537,665	19,772,805	220,135
DYA	SYLCO DIVISION, HICKSVILLE NY								
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY	122,007,219	779,956	790,143,775	5,949,241	84,864,147	713,235	72,078,005	582,668
FAA	DOE OAK RIDGE OPERATIONS OFFICE								
FAP	BABCOCK & WILCOX NUC MATLS, EXCPT PU								
FAV	KERR-MCGEE CORP, NUCLEAR PRODUCTS								
FAX	NUCLEAR FUEL SERVICES, INC. ERWIN, TN	574,702	18,967	6,402	(43)				
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT								
FBB	GENERAL ELECTRIC CO, IDAHO FALLS								
FBE	NEW BRUNSWICK LABORATORY, USAEC	1,781	18	302	12	112	8	354	20
FBM	KERR-MCGEE NUCLEAR CORP, CIMARRON								
FBZ	GULF NUCLEAR FUELS, COMMERCIAL PRODC					1,722	(2,598)	3,106	3,066
FTA&BBA	RMI TITANIUM COMPANY	886,646,434	627,839	728,065,605	7,259,380	479,843,824	4,492,780	338,933,408	3,477,614
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING								
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH			6,791	96	20,207	1,544	1,433	32
FYA	UNION CARBIDE, PGDP, PADUCAH, KY							108,529	900
FYC	BECHTEL JACOBS CO. LLC, US								
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN			11,743,423	286,869	11,913,106	278,842	10,183,272	228,821
FZB	UNION CARBIDE CORP, Y-12 PLANT			8,154,187	313,926	48,322,118	535,366	1,989,796	48,081
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN			41,777	695				
FZE	BECHTEL JACOBS COMPANY LLC								
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL								

APPENDIX A.1 FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT FEMP HISTORICAL DATA RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1968 2ND HALF		FY1969		FY1970		FY1971	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
GAT	GOODYEAR ATOMIC CORP, PORTSMOUTH								
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA								
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA								
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD								
HUD	WESTINGHOUSE HANFORD COMPANY								
HUE	WESTINGHOUSE HANFORD, DEFENSE REACTOR DIV								
HVA	ATLANTIC RICHLAND HANFORD COMPANY	1,001,753,898	9,351,382	1,869,948,251	18,453,646	1,769,190,888	14,549,464	(14,266)	(40,175)
HWA	ISOCHEM, INCORPORATED, RICHLAND								
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND	200,287,200	1,435,418	195,023,606	1,905,550	179,309,870	1,792,812	269,564,529	2,800,464
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB			68,762	955	17,778	272	3,362,436	41,973
HZA	GENERAL ELECTRIC CO, RICHLAND								
ISA	ALLIED CHEMICAL, ICPP, IDAHO FALLS								
ISD	AEROJET NUCLEAR CO, IDAHO, TRA, TAN, PBF								
ISG	EG&G IDAHO - TRA, ARA, LOFT, PBF, TAN								
IWB	IDAHO NUCLEAR CORP, TEST REACTOR							215,849	9,466
LAE	ROCKETDYNE, ROCKWELL INTL, SANTA SUSANA	117,903	6,798	38,518,695	1,651,377	1,547,976	31,785		
LAW	GENERAL ATOMICS SAN DIEGO								
LAZ	GE, VALLECITOS NUCLEAR CENTER			973	50			7,847	415
LIC	GA TECHNOLOGIES, INC SAN DIEGO	4,676	(92)						
MAW	COMBUSTION ENGINEERING, NUCLEAR								
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.								
MBL	MARTIN MARIETTA CORP, BALTIMORE								
MBN	WHITTAKER CORP, NUC METALS DIVISION	225,088	5,579						
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER					116,243	4,681	(497)	(43)
MBU	UNITED NUCLEAR CORP, RES & ENGR CNTR								
MBY	VITRO CORPORATION OF AMERICA								
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO								
MCY	WESTINGHOUSE, FUEL MFG & DEV, CHESWICK					9,536	912		
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV								
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ								
OCB									
PAP	BABCOCK & WILCOX, APOLLO, NUC MATL & MFG								
PZA	BETTIS ATOMIC POWER LABORATORY			1,201,139	15,723			28,939	379
QAB	INTERNATIONAL PROGRAMS CONTROL								
QBA	REGULATORY OPERATIONS, HDQTRS, WASH								
RAA	INTERNATIONAL PROGRAMS CONTROL			1,306	17	169,734	6,523		
SDA&SRA	DUPONT SAVANNAH RIVER								
SDA&SRO	DUPONT SAVANNAH RIVER								
SNM									
SRO&SRS	SYLCOR DIVISION, HICKSVILLE, NY								
TAX	KERR-MCGEE CORP, CIMARRON FACILITY	5,934							
TBL	NUCLEAR MATERIAL AND EQUIPMENT								

APPENDIX A.1 **FEMP ENRICHED RECEIPTS**

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1968 2ND HALF		FY1969		FY1970		FY1971	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
VAQ	CHEM-NUCLEAR SYSTEMS, BARNWELL								
VVB	NLO, INC FERNALD BURIAL GROUND								
VVC	FEMP, WASTE MANAGEMENT ACCOUNT								
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY, NY					27,780,000	445,920	48,944,121	1,081,302
YEC	CIMARRON CORPORATION	1,523,210		271,749	7,431	2,661,618	51,054	6,493,314	153,572
YJM	NUCLEAR FUEL SERVICES, INTERNATIONAL ACCOUNT			12,634,000	346,540	6,616,700	174,560		
YLE	WESTINGHOUSE, NES, WALTZ MILL SITE					2,987,230	92,607		
YLM	WESTINGHOUSE, COMMERCIAL FUEL DIV.							252,559	10,158
YUD	SIEMENS POWER CORPORATION								
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA								
ZEF	COMBUSTION ENGINEERING, LEU, WINDSOR					3,242,533	75,907	145,628	2,945
ZGR	GENERAL ELECTRIC, NUCLEAR ENERGY, SAN JOSE			48,713	1,749				
ZLD	LEDOUX & COMPANY								
ZQM	NUCLEAR FUEL SERVICES, INC.	3,100,686		558,155	13,631	78,086	1,952	444,556	15,781
ZQN	B&W NES, INC., NUCLEAR SERVICES	2,411,595		10,918,145	370,638	3,259,401	100,909	2,387,883	71,653
ZWQ	ABB COMBUSTION ENGINEERING, INC	208,186		2,691	(10)	2,963,160	81,989		
ZWS	GENERAL ATOMIC CO, ELMSPORD, NY					6,755,735	193,260	707,864	15,930
ZYP	WESTINGHOUSE, COMMERCIAL MFG, CHESWICK			7,209,310	221,539	2,603,413	73,981	5,256,523	206,672
ZZA	UNIVERSITY OF WISCONSIN, REACTOR LAB								
FVCH	FEMP DISCARD TO HOLDING AREA								
GVCH	FEMP DISCARD TO HOLDING AREA								
MISC	NORMAL TO ENRICHED			689,348,496	4,923,924	439,736,784	3,089,317	317,309,149	2,242,526
MISC	DEPLETED TO ENRICHED								
MISC	MISC								
TOTAL	TOTAL	2,269,891,020	12,604,401	4,381,171,008	41,902,761	3,104,605,507	27,338,523	1,098,558,328	11,192,929

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1972		FY1973		FY1974		FY1975	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS								
AUA	LOS ALAMOS NATIONAL LABORATORY	28,170	2,838		214				
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY								
BBA	BRIDGEPORT BRASS CO.								
BWD	BECHTEL JACOBS COMPANY LLC								
BXA	LMUS, USEC, PORTSMOUTH GDP								
BYC	USEC, PADUCAH GDP								
BZA	BROOKHAVEN RESEARCH LABORATORY								
CAA	DOE CHICAGO OPERATIONS OFFICE					689,515	66,048		
CAF	BATTELLE, COLUMBUS DIVISION			20,831	1,049	8,132	403		
CAZ	ALLIS CHALMERS MANUFACTURING COMPANY								
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY					156	7	312	14
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS								
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)								
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY								
CCS	BWX TECHNOLOGIES, INC.								
CKY	UNION CARBIDE NUCLEAR CO.								
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)								
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS			36,463	780	36,177	1,581	4,493,234	84,706
DAA	DOE SAVANNAH RIVER OPERATIONS OFFICE								
DYA	SYLOR DIVISION, HICKSVILLE NY								
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY	2,014,240	25,295	2,169,870	23,817	17,914,048	587,959	134,808	3,839
FAA	DOE OAK RIDGE OPERATIONS OFFICE								
FAP	BABCOCK & WILCOX NUC MATLS, EXCPT PU								
FAV	KERR-MCGEE CORP, NUCLEAR PRODUCTS								
FAX	NUCLEAR FUEL SERVICES, INC. ERWIN, TN								
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT								
FBB	GENERAL ELECTRIC CO, IDAHO FALLS								
FBE	NEW BRUNSWICK LABORATORY, USAEC	1,107	58	312	12	156	5		
FBM	KERR-MCGEE NUCLEAR CORP, CIMARRON								
FBZ	GULF NUCLEAR FUELS, COMMERCIAL PRODC								
FTA&BBA	RMI TITANIUM COMPANY	91,988,455	923,625	83,002,528	844,042	145,930,422	1,447,098	106,914,434	1,081,409
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING								
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH	1,083,497	11,343	13,884	(191)			5,391	178
FYA	UNION CARBIDE, PGDP, PADUCAH, KY	387,545	2,992	175,672	1,262	5,694,289	40,531	1,485,545	10,575
FYC	BECHTEL JACOBS CO., LLC, US								
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN	1,926,718	32,278	2,843,912	50,675	2,815,539	58,423	593,258	12,527
FZB	UNION CARBIDE CORP, Y-12 PLANT					39,877	353	100,571	1,667
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN			199,062	2,123	23,602	354		
FZE	BECHTEL JACOBS COMPANY LLC								
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL								

APPENDIX A.1 **FEMP ENRICHED RECEIPTS**

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RJS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1972		FY1973		FY1974		FY1975	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
GAT	GOODYEAR ATOMIC CORP., PORTSMOUTH								
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA								
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA								
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD								
HUD	WESTINGHOUSE HANFORD COMPANY								
HUE	WESTINGHOUSE HANFORD, DEFENSE REACTOR DIV								
HVA	ATLANTIC RICHFIELD HANFORD COMPANY								
HWA	ISOCHEM, INCORPORATED, RICHLAND								
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND	80,783,368	805,306	366,841,642	3,519,345	123,162,487	1,220,769	55,131,774	548,598
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB	5,689,858	111,731	1,707,934	38,218	4,040,965	57,422	6,852	98
HZA	GENERAL ELECTRIC CO, RICHLAND								
ISA	ALLIED CHEMICAL, ICPP, IDAHO FALLS	120	4	719	23	536	13	60	2
JSB	AEROJET NUCLEAR CO, IDAHO, TRA, TAN, PBF	2,194	140			828,489	39,807		
JSG	EG&G IDAHO - TRA, ARA, LOFT, PBF, TAN								
JWB	IDAHO NUCLEAR CORP, TEST REACTOR	117	46						
LAE	ROCKETDYNE, ROCKWELL INTL, SANTA SUSANA	2,149	52	117,742	2,217				
LAW	GENERAL ATOMICS SAN DIEGO								
LAZ	GE, VALLECITOS NUCLEAR CENTER								
LIC	GA TECHNOLOGIES, INC SAN DIEGO								
MAW	COMBUSTION ENGINEERING, NUCLEAR								
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.								
MBL	MARTIN MARIETTA CORP, BALTIMORE								
MBN	WHITTAKER CORP, NUC METALS DIVISION								
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER								
MBU	UNITED NUCLEAR CORP, RES & ENGR CNTR								
MBY	VITRO CORPORATION OF AMERICA								
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO								
MCY	WESTINGHOUSE, FUEL MFG & DEV, CHESWICK								
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV								
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ								
OCB									
PAP	BABCOCK & WILCOX, APOLLO, NUC MATL & MFG								
PZA	BEITIS ATOMIC POWER LABORATORY			5,135,752	66,842	18,607	240		
QAB	INTERNATIONAL PROGRAMS CONTROL								
QBA	REGULATORY OPERATIONS, HDQTRS, WASH					1,209	38		
RAA	INTERNATIONAL PROGRAMS CONTROL								
SDA&SRA	DUPONT SAVANNAH RIVER								
SDA&SRO	DUPONT SAVANNAH RIVER								
SNM									
SRO&SRS	SYLOR DIVISION, HICKSVILLE, NY								
TAX	KERR-MCGEE CORP, CIMARRON FACILITY								
TBL	NUCLEAR MATERIAL AND EQUIPMENT								

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1972		FY1973		FY1974		FY1975	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
VAQ	CHEM-NUCLEAR SYSTEMS, BARNWELL								
VVB	NLO, INC FERNALD BURIAL GROUND								
VVC	FEMP, WASTE MANAGEMENT ACCOUNT								
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY, NY	30,572,768	604,732						
YEC	CIMARRON CORPORATION								
YJM	NUCLEAR FUEL SERVICES, INTERNATIONAL ACCOUNT								
YLE	WESTINGHOUSE, NES, WALTZ MILL SITE								
YLM	WESTINGHOUSE, COMMERCIAL FUEL DIV.								
YUD	SIEMENS POWER CORPORATION								
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA								
ZEF	COMBUSTION ENGINEERING, LEU, WINDSOR	76,710	1,284						
ZGR	GENERAL ELECTRIC, NUCLEAR ENERGY, SAN JOSE								
ZLD	LEDoux & COMPANY								
ZQM	NUCLEAR FUEL SERVICES, INC.			2,544,137	74,096				
ZQN	B&W NES, INC., NUCLEAR SERVICES	742,108	23,260						
ZWQ	ABB COMBUSTION ENGINEERING, INC								
ZWS	GENERAL ATOMIC CO, ELMSFORD, NY								
ZYP	WESTINGHOUSE, COMMERCAL MFG, CHESWICK								
ZZA	UNIVERSITY OF WISCONSIN, REACTOR LAB								
FVCH	FEMP DISCARD TO HOLDING AREA								
GVCH	FEMP DISCARD TO HOLDING AREA								
MISC	NORMAL TO ENRICHED	1,086,187,644	7,723,980	1,691,226,646	12,028,740	1,514,184,413	10,790,830	2,189,935	17,238
MISC	DEPLETED TO ENRICHED			994,678	1,903	707,226	1,919	763,935	3,109
MISC	MISC								
TOTAL	TOTAL	1,301,486,768	10,268,964	2,157,031,784	16,655,167	1,816,095,845	14,313,800	171,820,109	1,763,960

APPENDIX A.1 **FEMP ENRICHED RECEIPTS**

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1976		FY1976A		FY1977		FY1978	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS								
AUA	LOS ALAMOS NATIONAL LABORATORY								
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY								
BBA	BRIDGEPORT BRASS CO.								
BWD	BECHTEL JACOBS COMPANY LLC								
BXA	LMUS, USEC, PORTSMOUTH GDP								
BYC	USEC, PADUCAH GDP								
BZA	BROOKHAVEN RESEARCH LABORATORY								
CAA	DOE CHICAGO OPERATIONS OFFICE								
CAF	BATTELLE, COLUMBUS DIVISION								
CAZ	ALLIS CHALMERS MANUFACTURING COMPANY								
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY	312	16	78	5	234	14		
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS					180	6	437	14
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)								
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY							1,789,359	16,945
CCS	BWX TECHNOLOGIES, INC.					3,548,160	142,656		
CKY	UNION CARBIDE NUCLEAR CO.								
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)								
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS	(23,881)	(452)						
DAA	DOE SAVANNAH RIVER OPERATIONS OFFICE								
DYA	SYLOR DIVISION, HICKSVILLE NY								
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY	12,523,181	376,853					12,278,998	544,098
FAA	DOE OAK RIDGE OPERATIONS OFFICE							149,203	1,475
FAP	BABCOCK & WILCOX NUC MATLS, EXCPT PU								
FAV	KERR-MCGEE CORP, NUCLEAR PRODUCTS								
FAX	NUCLEAR FUEL SERVICES, INC. ERWIN, TN								
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT								
FBB	GENERAL ELECTRIC CO, IDAHO FALLS								
FBE	NEW BRUNSWICK LABORATORY, USAEC								
FBM	KERR-MCGEE NUCLEAR CORP, CIMARRON								
FBZ	GULF NUCLEAR FUELS, COMMERCIAL PRODC								
FTA&BBA	RMI TITANIUM COMPANY	47,378,064	489,421	3,761,396	39,904	62,020,129	625,368	71,168,777	698,411
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING								
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH	2,625	99					89,127	4,968
FYA	UNION CARBIDE, PGDP, PADUCAH, KY	147,664,977	1,238,067	35,611,963	258,057	15,820,703	115,908	(1,999,268)	(13,342)
FYC	BECHTEL JACOBS CO. ,LLC,US								
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN	1,212,223	26,285	627,663	7,642	1,342,545	14,057	2,908,903	31,511
FZB	UNION CARBIDE CORP, Y-12 PLANT	9,345,109	358,595			62,962	1,325	(1,642)	(30)
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN							14,415	493
FZE	BECHTEL JACOBS COMPANY LLC								
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL								

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1976		FY1976A		FY1977		FY1978	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
GAT	GOODYEAR ATOMIC CORP., PORTSMOUTH								
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA								
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA								
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD								
HUD	WESTINGHOUSE HANFORD COMPANY								
HUE	WESTINGHOUSE HANFORD, DEFENSE REACTOR DIV								
HVA	ATLANTIC RICHFIELD HANFORD COMPANY								
HWA	ISOCHEM, INCORPORATED, RICHLAND								
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND	16,229,821	174,832	1,531,320	14,502	121,546,550	1,215,731	92,060,115	920,698
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB	1,688,538	75,826					26,723	876
HZA	GENERAL ELECTRIC CO, RICHLAND								
JSA	ALLIED CHEMICAL, ICPP, IDAHO FALLS	311	7						
JSB	AEROJET NUCLEAR CO, IDAHO, TRA, TAN, PBF								
JSG	EG&G IDAHO - TRA, ARA, LOFT, PBF, TAN								
JWB	IDAHO NUCLEAR CORP, TEST REACTOR								
LAE	ROCKETDYNE, ROCKWELL INTL, SANTA SUSANA								
LAW	GENERAL ATOMICS SAN DIEGO								
LAZ	GE, VALLECITOS NUCLEAR CENTER								
LIC	GA TECHNOLOGIES, INC SAN DIEGO								
MAW	COMBUSTION ENGINEERING, NUCLEAR								
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.								
MBL	MARTIN MARIETTA CORP, BALTIMORE								
MBN	WHITTAKER CORP, NUC METALS DIVISION								
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER								
MBU	UNITED NUCLEAR CORP, RES & ENGR CNTR								
MBY	VITRO CORPORATION OF AMERICA								
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO								
MCY	WESTINGHOUSE, FUEL MFG & DEV, CHESWICK								
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV								
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ								
OCB									
PAP	BABCOCK & WILCOX, APOLLO, NUC MATL & MFG								
PZA	BETTIS ATOMIC POWER LABORATORY								
QAB	INTERNATIONAL PROGRAMS CONTROL								
QBA	REGULATORY OPERATIONS, HDQTRS, WASII								
RAA	INTERNATIONAL PROGRAMS CONTROL								
SDA&SRA	DUPONT SAVANNAH RIVER								
SDA&SRO	DUPONT SAVANNAH RIVER								
SNM									
SRO&SRS	SYLOR DIVISION, HICKSVILLE, NY								
TAX	KERR-MCGEE CORP, CIMARRON FACILITY								
TBL	NUCLEAR MATERIAL AND EQUIPMENT								

APPENDIX A.1 **FEMP ENRICHED RECEIPTS**

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

EXTERNAL RECEIPTS ENRICHED URANIUM		FY1976		FY1976A		FY1977		FY1978	
RIS	SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
VAQ	CHEM-NUCLEAR SYSTEMS, BARNWELL								
VVB	NLO, INC FERNALD BURIAL GROUND								
VVC	FEMP, WASTE MANAGEMENT ACCOUNT								
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY, NY								
YEC	CIMARRON CORPORATION							1,315	93
YJM	NUCLEAR FUEL SERVICES, INTERNATIONAL ACCOUNT								
YLE	WESTINGHOUSE, NES, WALTZ MILL SITE								
YLM	WESTINGHOUSE, COMMERCIAL FUEL DIV.								
YUD	SIEMENS POWER CORPORATION								
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA								
ZEF	COMBUSTION ENGINEERING, LEU, WINDSOR								
ZGR	GENERAL ELECTRIC, NUCLEAR ENERGY, SAN JOSE								
ZLD	LEDoux & COMPANY								
ZQM	NUCLEAR FUEL SERVICES, INC.								
ZQN	B&W NES, INC., NUCLEAR SERVICES								
ZWQ	ABB COMBUSTION ENGINEERING, INC								
ZWS	GENERAL ATOMIC CO, ELMSFORD, NY								
ZYP	WESTINGHOUSE, COMMERCAL MFG, CHESWICK								
ZZA	UNIVERSITY OF WISCONSIN, REACTOR LAB							1,844	43
FVCH	FEMP DISCARD TO HOLDING AREA								
GVCH	FEMP DISCARD TO HOLDING AREA								
MISC	NORMAL TO ENRICHED	263,581	1,875	82,875,020	591,388	1,006,253,614	7,282,811	8,362,936	54,755
MISC	DEPLETED TO ENRICHED	1,113,244	6,313	121,970	826				
MISC	MISC								
TOTAL	TOTAL	237,398,105	2,747,737	124,529,410	912,324	1,210,595,077	9,397,876	186,851,242	2,261,008

APPENDIX A.1 FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT FEMP HISTORICAL DATA RECEIPTS OF ENRICHED URANIUM

	EXTERNAL RECEIPTS ENRICHED URANIUM		FY1979		FY1980		FY1981		FY1982		
RIS	SITE		GMS	U-235	GMS	U-235	GMS	U-235	GMS	U-235	
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS										
AUA	LOS ALAMOS NATIONAL LABORATORY										
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY										
BBA	BRIDGEPORT BRASS CO										
BWD	BECHTEL JACOBS COMPANY LLC										
BXA	LMUS, USEC, PORTSMOUTH GDP								1,317		14
BYC	USEC, PADUCAH GDP										
BZA	BROOKHAVEN RESEARCH LABORATORY										
CAA	DOE CHICAGO OPERATIONS OFFICE										
CAF	BATTELLE, COLUMBUS DIVISION										
CAZ	ALLIS CHALMERS MANUFACTURING COMPANY										
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY										
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS		279	6	655	14	463	12	387	15	
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)										
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY				1,767,095	18,246	587,989	8,559	294,924	4,748	
CCS	BWX TECHNOLOGIES, INC.										
CKV	UNION CARBIDE NUCLEAR CO										
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)										
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS								368,467	54,624	
DAA	DOE SAVANNAH RIVER OPERATIONS OFFICE										
DYA	SYLCO DIVISION, HICKSVILLE NY										
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY		24,109,283	258,880	39,687,427	1,148,333					
FAA	DOE OAK RIDGE OPERATIONS OFFICE		150,346	1,638	15,094	146	11,042	103			
FAP	BABCOCK & WILCOX NUC MATLS, EXCEPT PU										
FAV	KERR-MCGEE CORP, NUCLEAR PRODUCTS										
FAX	NUCLEAR FUEL SERVICES, INC, ERWIN, TN										
FBA	GENERAL ELECTRIC CO, EVANSTON PLANT										
FBB	GENERAL ELECTRIC CO, IDAHO FALLS										
FBE	NEW BRUNSWICK LABORATORY, USAEC										
FBM	KERR-MCGEE NUCLEAR CORP, CIMAARON										
FBZ	GULF NUCLEAR FUELS, COMMERCIAL PRODUCT										
FTABBA	RMI TITANIUM COMPANY		76,061,332	768,591	48,569,012	508,183	79,528,481	798,682	116,111,740	1,126,581	
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING										
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH		(3,897)	(244)					3,451,568	118,139	
FVA	UNION CARBIDE, PGDP, PADUCAH, KY		396,189,909	3,404,945	4,517,616	33,697	398,416,080	3,417,020	663,626,576	5,589,741	
FVC	BECHTEL JACOBS CO, LLC, US										
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN		4,288,468	40,247	1,387,193	13,999	1,950,363	24,196	1,044,951	12,139	
FZB	UNION CARBIDE CORP, Y-12 PLANT										
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN		219,254	8,550					2,223	32	
FZE	BECHTEL JACOBS COMPANY LLC										
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL										

**APPENDIX A.1
FEMP ENRICHED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM**

EXTERNAL RECEIPTS ENRICHED URANIUM		FY1979		FY1980		FY1981		FY1982	
RIS	SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
GAT	GOODYEAR ATOMIC CORP. PORTSMOUTH								
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA								
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA								
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD								
HUD	WESTINGHOUSE HANFORD COMPANY								
HUE	WESTINGHOUSE HANFORD, DEFENSE REACTOR DIV								
HVA	ATLANTIC RICHFIELD HANFORD COMPANY								
HWA	ISOICHEM, INCORPORATED, RICHLAND								
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND	56,331,606	579,013	56,550,788	567,855	91,326,265	889,737	77,244,586	768,934
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB	1,486	147	1,155,465	49,685	(951)	(41)	7,784	853
HZA	GENERAL ELECTRIC CO, RICHLAND								
JSA	ALLIED CHEMICAL, ICPP, IDAHO FALLS								
JSB	AEROJET NUCLEAR CO, IDAHO TRA, TAN, PBF								
JSG	EG&G IDAHO - TRA, ARA, LOFT, PBF, TAN								
JWB	IDAHO NUCLEAR CORP, TEST REACTOR								
LAE	ROCKETDYNE, ROCKWELL INTL, SANTA SUSANA								
LAW	GENERAL ATOMICS, SAN DIEGO							578	41
LAZ	GE, VALLECITOS NUCLEAR CENTER								
LIC	GA TECHNOLOGIES, INC, SAN DIEGO								
MAW	COMBUSTION ENGINEERING, NUCLEAR								
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.								
MBL	MARTIN MARIETTA CORP, BALTIMORE								
MBN	WHITTAKER CORP, NUC METALS DIVISION								
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER								
MBU	UNITED NUCLEAR CORP, RES & ENGR CNTR								
MBY	VITRO CORPORATION OF AMERICA								
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO								
MCY	WESTINGHOUSE, FUEL MFG & DEV, CHESWICK								
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV								
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ								
OCB									
PAP	BABCOCK & WILCOX, APOLLO, NUC MATL & MFG			14,288	448	103,101	2,578		
PZA	BETTIS ATOMIC POWER LABORATORY								
QAB	INTERNATIONAL PROGRAMS CONTROL								
QBA	REGULATORY OPERATIONS, HDQTRS, WASH								
RAA	INTERNATIONAL PROGRAMS CONTROL								
SDA&SRA	DUPONT SAVANNAH RIVER								
SDA&SRO	DUPONT SAVANNAH RIVER								
SNM									
SRO&SRS	SYLOR DIVISION, HICKSVILLE, NY								
TAX	KERR-MCGEE CORP, CIMARRON FACILITY								
TBL	NUCLEAR MATERIAL AND EQUIPMENT								

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1979		FY1980		FY1981		FY1982	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
VAQ	CHEM-NUCLEAR SYSTEMS, BARNWELL								
VVB	NLO, INC FERNALD BURIAL GROUND					4,196	41	16,574	162
VVC	FEMP, WASTE MANAGEMENT ACCOUNT								
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY, NY								
YEC	CIMARRON CORPORATION								
YJM	NUCLEAR FUEL SERVICES, INTERNATIONAL ACCOUNT								
YLE	WESTINGHOUSE, NES, WALTZ MILL SITE								
YLM	WESTINGHOUSE, COMMERCIAL FUEL DIV.								
YUD	SIEMENS POWER CORPORATION								
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA								
ZEF	COMBUSTION ENGINEERING, LEU, WINDSOR								
ZGR	GENERAL ELECTRIC, NUCLEAR ENERGY, SAN JOSE								
ZLD	LEDoux & COMPANY								
ZQM	NUCLEAR FUEL SERVICES, INC.								
ZQN	B&W NES, INC., NUCLEAR SERVICES								
ZWQ	ABB COMBUSTION ENGINEERING, INC								
ZWS	GENERAL ATOMIC CO, ELMSFORD, NY								
ZYP	WESTINGHOUSE, COMMERCIAL MFG, CHESWICK								
ZZA	UNIVERSITY OF WISCONSIN, REACTOR LAB								
FVCH	FEMP DISCARD TO HOLDING AREA								
GVCH	FEMP DISCARD TO HOLDING AREA								
MISC	NORMAL TO ENRICHED	16,385,946	110,017	42,637	85	6,957,617	49,533	13,493,759	94,339
MISC	DEPLETED TO ENRICHED								
MISC	MISC								
TOTAL	TOTAL	573,734,012	5,171,790	153,707,270	2,340,691	578,884,646	5,190,420	875,665,434	7,770,382

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

EXTERNAL RECEIPTS ENRICHED URANIUM		FY1983		FY1984		FY1985		FY1986 FVA	
RIS	SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS					765,887	34,388		
AUA	LOS ALAMOS NATIONAL LABORATORY								
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY								
BBA	BRIDGEPORT BRASS CO.								
BWD	BECHTEL JACOBS COMPANY LLC								
BXA	LMUS, USEC, PORTSMOUTH GDP			119,775,158	2,151,283	102,062,159	1,837,633	29,756	536
BYC	USEC, PADUCAH GDP					24,801,348	445,356		
BZA	BROOKHAVEN RESEARCH LABORATORY								
CAA	DOE CHICAGO OPERATIONS OFFICE								
CAF	BATTELLE, COLUMBUS DIVISION								
CAZ	ALLIS CHALMERS MANUFACTURING COMPANY								
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY								
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS	409	13	341	10	30,480	706		
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)								
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	2,450,494	27,829	552,744	6,326				
CCS	BWX TECHNOLOGIES, INC.					459,087	15,243		
CKY	UNION CARBIDE NUCLEAR CO.								
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)								
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS	3,235,514	98,357	800,732	24,354				
DAA	DOE SAVANNAH RIVER OPERATIONS OFFICE								
DYA	SYLOR DIVISION, HICKSVILLE NY								
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY	45,982,142	505,803	19,077,451	209,881				
FAA	DOE OAK RIDGE OPERATIONS OFFICE								
FAP	BABCOCK & WILCOX NUC MATLS, EXCPT PU								
FAV	KERR-MCGEE CORP, NUCLEAR PRODUCTS								
FAX	NUCLEAR FUEL SERVICES, INC. ERWIN, TN								
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT								
FBB	GENERAL ELECTRIC CO, IDAHO FALLS								
FBE	NEW BRUNSWICK LABORATORY, USAEC								
FBM	KERR-MCGEE NUCLEAR CORP, CIMARRON								
FBZ	GULF NUCLEAR FUELS, COMMERCIAL PRODC								
FTA&BBA	RMI TITANIUM COMPANY	451,817,728	4,798,891	226,004,535	2,213,931	265,640,047	2,568,281	57,675,629	623,078
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING								
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH	14,839,488	622,521	13,818,204	426,115	257,458	30,300		
FYA	UNION CARBIDE, PGDP, PADUCAH, KY	396,293,373	3,255,703	(954)	(8)				
FYC	BECHTEL JACOBS CO, LLC, US			2,337,769	20,061	923,587	7,454		
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN								
FZB	UNION CARBIDE CORP, Y-12 PLANT	20,048	3,351						
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN	1,563,597	31,115						
FZE	BECHTEL JACOBS COMPANY LLC								
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL								

**APPENDIX A.1
FEMP ENRICHED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM**

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1983		FY1984		FY1985		FY1986 FVA	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
GAT	GOODYEAR ATOMIC CORP. PORTSMOUTH								
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA								
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA								
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD			708,039,512	5,989,441	919,949,644	7,782,795	278,944,328	2,534,230
HUD	WESTINGHOUSE HANFORD COMPANY								
HUE	WESTINGHOUSE HANFORD, DEFENSE REACTOR DIV								
HVA	ATLANTIC RICHFIELD HANFORD COMPANY								
HWA	ISOCHEM, INCORPORATED, RICHLAND								
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND	158,947,059	1,594,594	236,964,611	2,366,501	170,470,510	1,663,193	38,085,113	370,870
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB	486,925	20,947						
HZA	GENERAL ELECTRIC CO, RICHLAND								
JSA	ALLIED CHEMICAL, ICPP, IDAHO FALLS								
JSB	AEROJET NUCLEAR CO, IDAHO, TRA, TAN, PBF								
JSG	EG&G IDAHO - TRA, ARA, LOFT, PBF, TAN								
JWB	IDAHO NUCLEAR CORP, TEST REACTOR								
LAE	ROCKETDYNE, ROCKWELL INTL, SANTA SUSANA								
LAW	GENERAL ATOMICS SAN DIEGO	6,441	1,128	16,737	3,199				
LAZ	GE, VALLECITOS NUCLEAR CENTER								
LIC	GA TECHNOLOGIES, INC SAN DIEGO								
MAW	COMBUSTION ENGINEERING, NUCLEAR								
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.								
MBL	MARTIN MARIETTA CORP, BALTIMORE								
MBN	WHITTAKER CORP, NUC METALS DIVISION								
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER								
MBU	UNITED NUCLEAR CORP, RES & ENGR CNTR								
MBY	VITRO CORPORATION OF AMERICA								
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO								
MCY	WESTINGHOUSE, FUEL MFG & DEV, CHESWICK								
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV								
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ								
OCB									
PAP	BABCOCK & WILCOX, APOLLO, NUC MATL & MFG								
PZA	BETTIS ATOMIC POWER LABORATORY								
QAB	INTERNATIONAL PROGRAMS CONTROL								
QBA	REGULATORY OPERATIONS, HDQTRS, WASH								
RAA	INTERNATIONAL PROGRAMS CONTROL								
SDA&SRA	DUPONT SAVANNAH RIVER								
SDA&SRO	DUPONT SAVANNAH RIVER								
SNM									
SRO&SRS	SYLCOR DIVISION, HICKSVILLE, NY								
TAX	KERR-MCGEE CORP, CIMARRON FACILITY								
TBL	NUCLEAR MATERIAL AND EQUIPMENT								

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

EXTERNAL RECEIPTS ENRICHED URANIUM		FY1983		FY1984		FY1985		FY1986 FVA	
RIS	SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
VAQ	CHEM-NUCLEAR SYSTEMS, BARNWELL								
VVB	NLO, INC FERNALD BURIAL GROUND	1,382	14			170,329	1,614	160,737	1,556
VVC	FEMP, WASTE MANAGEMENT ACCOUNT								
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY, NY								
YEC	CIMARRON CORPORATION								
YJM	NUCLEAR FUEL SERVICES, INTERNATIONAL ACCOUNT								
YLE	WESTINGHOUSE, NES, WALTZ MILL SITE								
YLM	WESTINGHOUSE, COMMERCIAL FUEL DIV.								
YUD	SIEMENS POWER CORPORATION	908,049	33,123	1,140,008	45,267	2,851	285	(84)	(22)
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA								
ZEF	COMBUSTION ENGINEERING, LEU, WINDSOR								
ZGR	GENERAL ELECTRIC, NUCLEAR ENERGY, SAN JOSE								
ZLD	LEDOUX & COMPANY					378	7		
ZQM	NUCLEAR FUEL SERVICES, INC.								
ZQN	B&W NES, INC., NUCLEAR SERVICES								
ZWQ	ABB COMBUSTION ENGINEERING, INC								
ZWS	GENERAL ATOMIC CO, ELMSFORD, NY								
ZYP	WESTINGHOUSE, COMMERCIAL MFG, CHESWICK								
ZZA	UNIVERSITY OF WISCONSIN, REACTOR LAB								
FVCH	FEMP DISCARD TO HOLDING AREA								
GVCH	FEMP DISCARD TO HOLDING AREA								
MISC	NORMAL TO ENRICHED	117,044,550	798,661	1,716,869	12,274	18,490,547	105,933	3,052,720	16,697
MISC	DEPLETED TO ENRICHED								
MISC	MISC								
TOTAL	TOTAL	1,193,597,199	11,792,050	1,330,243,717	13,468,635	1,504,024,312	14,493,188	377,948,199	3,546,945

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1986 FVC		FY1987		FY1988		FY1989		FY1990	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS			507,246	22,687			(14,738)	(729)		
AUA	LOS ALAMOS NATIONAL LABORATORY										
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY	3	-								
BBA	BRIDGEPORT BRASS CO.										
BWD	BECHTEL JACOBS COMPANY LLC	30,844,305	609,621								
BXA	LMUS, USEC, PORTSMOUTH GDP	57,672,507	1,126,585	28,603,271	558,298						
BYC	USEC, PADUCAH GDP			128,410,466	1,604,296						
BZA	BROOKHAVEN RESEARCH LABORATORY										
CAA	DOE CHICAGO OPERATIONS OFFICE										
CAF	BATTELLE, COLUMBUS DIVISION										
CAZ	ALLIS CHALMERS MANUFACTURING COMPANY										
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY										
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS			30	1	49	1	98	1	98	1
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)										
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY			280,665	3,136						
CCS	BWX TECHNOLOGIES, INC.					136	1				
CKY	UNION CARBIDE NUCLEAR CO.										
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)										
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS										
DAA	DOE SAVANNAH RIVER OPERATIONS OFFICE										
DYA	SYLOR DIVISION, HICKSVILLE NY										
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY	18,182	190								
FAA	DOE OAK RIDGE OPERATIONS OFFICE										
FAP	BABCOCK & WILCOX NUC MATLS, EXCPT PU										
FAV	KERR-MCGEE CORP, NUCLEAR PRODUCTS										
FAX	NUCLEAR FUEL SERVICES, INC. ERWIN, TN										
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT										
FBB	GENERAL ELECTRIC CO, IDAHO FALLS										
FBE	NEW BRUNSWICK LABORATORY, USAEC										
FBM	KERR-MCGEE NUCLEAR CORP, CIMARRON										
FBZ	GULF NUCLEAR FUELS, COMMERCIAL PRODC										
FTA&BBA	RMI TITANIUM COMPANY	163,352,719	1,584,889	139,107,873	1,450,264	72,453,784	687,802	2,007,275	18,571	19,051	149
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING										
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH	1,291	12								
FYA	UNION CARBIDE, PGDP, PADUCAH, KY										
FYC	BECHTEL JACOBS CO, LLC, US										
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN										
FZB	UNION CARBIDE CORP, Y-12 PLANT										
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN										
FZE	BECHTEL JACOBS COMPANY LLC										
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL			2,754	28					1,372	16

**APPENDIX A.1
FEMP ENRICHED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM**

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM SITE	FY1986 FVC		FY1987		FY1988		FY1989		FY1990	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
GAT	GOODYEAR ATOMIC CORP., PORTSMOUTH										
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA										
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA										
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD	872,848,186	7,310,865	313,973,316	2,944,848						
HUD	WESTINGHOUSE HANFORD COMPANY					121,425,579	1,026,523	(88,669)	(378)		
HUE	WESTINGHOUSE HANFORD, DEFENSE REACTOR DIV					15,060,899	149,226	1,827	15		
HVA	ATLANTIC RICHFIELD HANFORD COMPANY										
HWA	ISOICHEM, INCORPORATED, RICHLAND										
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND	120,217,145	1,260,981	54,521,687	521,763						
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB	45,472	2,784			382,976	16,468				
HZA	GENERAL ELECTRIC CO, RICHLAND										
ISA	ALLIED CHEMICAL, ICP, IDAHO FALLS										
JSB	AEROJET NUCLEAR CO, IDAHO, TRA, TAN, PBF										
JSG	EG&G IDAHO - TRA, ARA, LOFT, PBF, TAN	1,714,181	77,909								
JWB	IDAHO NUCLEAR CORP, TEST REACTOR										
LAE	ROCKETDYNE, ROCKWELL INTL, SANTA SUSANA										
LAW	GENERAL ATOMICS SAN DIEGO										
LAZ	GE, VALLECITOS NUCLEAR CENTER										
LIC	GA TECHNOLOGIES, INC SAN DIEGO										
MAW	COMBUSTION ENGINEERING, NUCLEAR										
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.										
MBL	MARTIN MARIETTA CORP, BALTIMORE										
MBN	WHITTAKER CORP, NUC METALS DIVISION										
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER										
MBU	UNITED NUCLEAR CORP, RES & ENGR CNTR										
MBY	VITRO CORPORATION OF AMERICA										
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO										
MCY	WESTINGHOUSE, FUEL MFG & DEV, CHESWICK										
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV										
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ										
OCB											
PAP	BABCOCK & WILCOX, APOLLO, NUC MATL & MFG										
PZA	BETTIS ATOMIC POWER LABORATORY			11,114	801						
QAB	INTERNATIONAL PROGRAMS CONTROL										
QBA	REGULATORY OPERATIONS, HDQTRS, WASH										
RAA	INTERNATIONAL PROGRAMS CONTROL										
SDA&SRA	DUPONT SAVANNAH RIVER										
SDA&SRO	DUPONT SAVANNAH RIVER										
SNM											
SRO&SRS	SYLOR DIVISION, HICKSVILLE, NY										
TAX	KERR-MCGEE CORP, CIMARRON FACILITY										
TBL	NUCLEAR MATERIAL AND EQUIPMENT										

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

EXTERNAL RECEIPTS ENRICHED URANIUM		FY1986 FVC		FY1987		FY1988		FY1989		FY1990	
RIS	SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
VAQ	CIEM-NUCLEAR SYSTEMS, BARNWELL										
VVB	NLO, INC FERNALD BURIAL GROUND										
VVC	FEMP, WASTE MANAGEMENT ACCOUNT	39,954	389					127,822	1,163		
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY, NY										
YEC	CIMARRON CORPORATION										
YJM	NUCLEAR FUEL SERVICES, INTERNATIONAL ACCOUNT										
YLE	WESTINGHOUSE, NES, WALTZ MILL SITE										
YLM	WESTINGHOUSE, COMMERCIAL FUEL DIV.										
YUD	SIEMENS POWER CORPORATION										
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA										
ZEF	COMBUSTION ENGINEERING, LEU, WINDSOR										
ZGR	GENERAL ELECTRIC, NUCLEAR ENERGY, SAN JOSE										
ZLD	LEDoux & COMPANY	89	2								
ZQM	NUCLEAR FUEL SERVICES, INC.										
ZQN	B&W NES, INC., NUCLEAR SERVICES										
ZWQ	ABB COMBUSTION ENGINEERING, INC										
ZWS	GENERAL ATOMIC CO, ELMSFORD, NY										
ZYP	WESTINGHOUSE, COMMERCIAL MFG, CHESWICK										
ZZA	UNIVERSITY OF WISCONSIN, REACTOR LAB										
FVCH	FEMP DISCARD TO HOLDING AREA										
GVCH	FEMP DISCARD TO HOLDING AREA										
MISC	NORMAL TO ENRICHED	9,679,489	33,450	4,163,420	29,262	9,813,061	53,482	7,344,066	52,138	807,892	4,181
MISC	DEPLETED TO ENRICHED										
MISC	MISC			357,474	3,552	1,338	40				
TOTAL	TOTAL	1,256,433,523	12,007,677	669,939,316	7,138,936	221,137,822	1,933,543	9,377,681	70,781	828,413	4,347

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM SITE	FY1991		FY1992		FY1993		FY1994		FY1995FVC		FY1995GVC	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS												
AUA	LOS ALAMOS NATIONAL LABORATORY												
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY												
BBA	BRIDGEPORT BRASS CO.												
BWD	BECHTEL JACOBS COMPANY LLC												
BXA	LMUS, USEC, PORTSMOUTH GDP												
BYC	USEC, PADUCAH GDP												
BZA	BROOKHAVEN RESEARCH LABORATORY												
CAA	DOE CHICAGO OPERATIONS OFFICE												
CAF	BATTELLE, COLUMBUS DIVISION												
CAZ	ALLIS CHALMERS MANUFACTURING COMPANY												
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY												
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS											507	16
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)												
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY												
CCS	BWX TECHNOLOGIES, INC.												
CKY	UNION CARBIDE NUCLEAR CO.												
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)												
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS												
DAA	DOE SAVANNAH RIVER OPERATIONS OFFICE												
DYA	SYLCO DIVISION, HICKSVILLE NY												
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY												
FAA	DOE OAK RIDGE OPERATIONS OFFICE												
FAP	BABCOCK & WILCOX NUC MATLS, EXCPT PU												
FAV	KERR-MCGEE CORP, NUCLEAR PRODUCTS												
FAX	NUCLEAR FUEL SERVICES, INC. ERWIN, TN												
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT												
FBB	GENERAL ELECTRIC CO, IDAHO FALLS												
FBE	NEW BRUNSWICK LABORATORY, USAEC												
FBM	KERR-MCGEE NUCLEAR CORP, CIMARRON												
FBZ	GULF NUCLEAR FUELS, COMMERCIAL PRODC												
FTA&BBA	RMI TITANIUM COMPANY												
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING												
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH												
FYA	UNION CARBIDE, PGDP, PADUCAH, KY												
FYC	BECHTEL JACOBS CO. LLC, US												
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN												
FZB	UNION CARBIDE CORP, Y-12 PLANT												
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN												
FZE	BECHTEL JACOBS COMPANY LLC					20							
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL	1,109	14			408	3						

APPENDIX A.1 FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT FEMP HISTORICAL DATA RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM SITE	FY1991		FY1992		FY1993		FY1994		FY1995FVC		FY1995GVC	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
GAT	GOODYEAR ATOMIC CORP., PORTSMOUTH												
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA												
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA												
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD												
HUD	WESTINGHOUSE HANFORD COMPANY												
HUE	WESTINGHOUSE HANFORD, DEFENSE REACTOR DIV												
HVA	ATLANTIC RICHFIELD HANFORD COMPANY												
HWA	ISOCHEM, INCORPORATED, RICHLAND												
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND												
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB												
HZA	GENERAL ELECTRIC CO, RICHLAND												
ISA	ALLIED CHEMICAL, ICPP, IDAHO FALLS												
JSB	AEROJET NUCLEAR CO, IDAHO, TRA, TAN, PBF												
JSG	EG&G IDAHO - TRA, ARA, LOFT, PBF, TAN												
JWB	IDAHO NUCLEAR CORP, TEST REACTOR												
LAE	ROCKETDYNE, ROCKWELL INTL, SANTA SUSANA												
LAW	GENERAL ATOMICS, SAN DIEGO												
LAZ	GE, VALLECITOS NUCLEAR CENTER												
LIC	GA TECHNOLOGIES, INC SAN DIEGO												
MAW	COMBUSTION ENGINEERING, NUCLEAR												
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.												
MBL	MARTIN MARIETTA CORP, BALTIMORE												
MBN	WHITTAKER CORP, NUC METALS DIVISION												
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER												
MBU	UNITED NUCLEAR CORP, RES & ENGR CNTR												
MBY	VITRO CORPORATION OF AMERICA												
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO												
MCY	WESTINGHOUSE, FUEL MFG & DEV, CHESWICK												
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV												
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ												
OCB													
PAP	BABCOCK & WILCOX, APOLLO, NUC MATL & MFG												
PZA	BETTIS ATOMIC POWER LABORATORY												
QAB	INTERNATIONAL PROGRAMS CONTROL												
QBA	REGULATORY OPERATIONS, HDQTRS, WASH												
RAA	INTERNATIONAL PROGRAMS CONTROL												
SDA&SRA	DUPONT SAVANNAH RIVER												
SDA&SRO	DUPONT SAVANNAH RIVER												
SNM													
SRO&SRS	SYLOR DIVISION, HICKSVILLE, NY												
TAX	KERR-MCGEE CORP, CIMARRON FACILITY												
TBL	NUCLEAR MATERIAL AND EQUIPMENT												

APPENDIX A.1 **FEMP ENRICHED RECEIPTS**

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1991		FY1992		FY1993		FY1994		FY1995FVC		FY1995GVC	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
VAQ	CHEM-NUCLEAR SYSTEMS, BARNWELL												
VVB	NLO, INC FERNALD BURIAL GROUND											227	2
VVC	FEMP, WASTE MANAGEMENT ACCOUNT	31,117	271										
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY, NY												
YEC	CIMARRON CORPORATION												
YIM	NUCLEAR FUEL SERVICES, INTERNATIONAL ACCOUNT												
YLE	WESTINGHOUSE, NES, WALTZ MILL SITE												
YLM	WESTINGHOUSE, COMMERCIAL FUEL DIV.												
YUD	SIEMENS POWER CORPORATION												
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA							724	6				
ZEF	COMBUSTION ENGINEERING, LEU, WINDSOR												
ZGR	GENERAL ELECTRIC, NUCLEAR ENERGY, SAN JOSE												
ZLD	LEDoux & COMPANY												
ZQM	NUCLEAR FUEL SERVICES, INC.												
ZQN	B&W NES, INC., NUCLEAR SERVICES												
ZWQ	ABB COMBUSTION ENGINEERING, INC												
ZWS	GENERAL ATOMIC CO, ELMSFORD, NY												
ZYP	WESTINGHOUSE, COMMERCIAL MFG, CHESWICK												
ZZA	UNIVERSITY OF WISCONSIN, REACTOR LAB												
FVCH	FEMP DISCARD TO HOLDING AREA	66,150	493	5,537	50	47,037,958	461,403	6,417,022	61,746	354,010	3,398		
GVCH	FEMP DISCARD TO HOLDING AREA											59,665,827	598,617
MISC	NORMAL TO ENRICHED												
MISC	DEPLETED TO ENRICHED												
MISC	MISC	25,393	238										
TOTAL	TOTAL	123,769	1,016	5,537	50	47,038,386	461,406	6,417,746	61,752	354,010	3,398	59,666,561	598,635

APPENDIX A.1
FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM

EXTERNAL RECEIPTS ENRICHED URANIUM		FY1996		FY1997		FY1998		FY1999		TOTAL	
RIS	SITE	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS									1,258,395	56,346
AUA	LOS ALAMOS NATIONAL LABORATORY									28,170	3,052
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY									3	-
BBA	BRIDGEPORT BRASS CO.									3,697,309,400	35,472,383
BWD	BECHTEL JACOBS COMPANY LLC									132,936,220	2,447,790
BXA	LMUS, USEC, PORTSMOUTH GDP									230,853,601	4,281,536
BYC	USEC, PADUCAH GDP									128,410,466	1,604,296
BZA	BROOKHAVEN RESEARCH LABORATORY									6,231,987	93,807
CAA	DOE CHICAGO OPERATIONS OFFICE									689,515	66,048
CAF	BATTELLE, COLUMBUS DIVISION									29,023	1,453
CAZ	ALLIS CHALMERS MANUFACTURING COMPANY									1,020,843	38,659
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY									1,092	56
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS									34,413	816
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)									259,515,000	2,499,548
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY									7,723,270	85,789
CCS	BWX TECHNOLOGIES, INC.									4,007,383	157,900
CKY	UNION CARBIDE NUCLEAR CO.									5,246,993,500	52,386,029
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)									210,300	10,831
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS									11,601,068	322,299
DAA	DOE SAVANNAH RIVER OPERATIONS OFFICE									332,952,956	3,990,895
DYA	SYLCOR DIVISION, HICKSVILLE NY									112,094,147	1,058,083
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY									3,321,841,268	28,324,185
FAA	DOE OAK RIDGE OPERATIONS OFFICE									325,685	3,362
FAP	BARCOCK & WILCOX NUC MATLS, EXCPT PU									1,355,781	60,939
FAV	KERR-MCGEE CORP, NUCLEAR PRODUCTS									65,482	2,449
FAX	NUCLEAR FUEL SERVICES, INC. ERWIN, TN									1,805,230	76,130
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT									1,951,065	24,388
FBB	GENERAL ELECTRIC CO, IDAHO FALLS									595,654	21,920
FBE	NEW BRUNSWICK LABORATORY, USAEC									18,260	301
FBM	KERR-MCGEE NUCLEAR CORP, CIMARRON									1,220,939	48,048
FBZ	GULF NUCLEAR FUELS, COMMERCIAL PRODC									157,566	7,679
FTA&BBA	RMI TITANIUM COMPANY									13,439,169,201	130,255,578
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING									743,253,418	6,937,208
FYA	BECHTEL JACOBS, USDOE, PORTSMOUTH									940,334,853	17,242,158
FYA	UNION CARBIDE, PGDP, PADUCAH, KY									2,318,059,696	19,780,130
FYC	BECHTEL JACOBS CO., LLC, US									3,261,356	27,515
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN									669,789,443	14,367,345
FZB	UNION CARBIDE CORP, Y-12 PLANT									87,890,341	1,854,416
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN									2,481,269	54,406
FZE	BECHTEL JACOBS COMPANY LLC									20	-
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL									5,643	61

**APPENDIX A.1
FEMP ENRICHED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF ENRICHED URANIUM**

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM SITE	FY1996		FY1997		FY1998		FY1999		TOTAL	
		U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS	U GMS	U-235 GMS
GAT	GOODYEAR ATOMIC CORP., PORTSMOUTH									1,632,900	24,030
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA									1,310,961,112	11,376,083
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA									1,559,495,300	13,504,283
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD									3,093,754,986	26,562,179
HUD	WESTINGHOUSE HANFORD COMPANY									123,336,910	1,026,145
HUE	WESTINGHOUSE HANFORD, DEFENSE REACTOR DIV									15,062,726	149,241
HVA	ATLANTIC RICHLAND HANFORD COMPANY									5,192,801,798	46,926,409
HWA	ISOCEM, INCORPORATED, RICHLAND									2,549,828,705	21,380,826
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND									2,889,489,625	28,754,768
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB									23,932,141	471,569
HZA	GENERAL ELECTRIC CO, RICHLAND									3,011,763,313	27,257,729
JSA	ALLIED CHEMICAL, ICPP, IDAHO FALLS									1,746	49
JSB	AEROJET NUCLEAR CO, IDAHO, TRA, TAN, PBF									830,683	39,947
JSG	EG&G IDAHO - TRA, ARA, LOFT, PBF, TAN									1,714,181	77,909
JWB	IDAHO NUCLEAR CORP, TEST REACTOR									215,966	9,512
LAE	ROCKETDYNE, ROCKWELL INTL, SANTA SUSANA									41,486,173	1,725,118
LAW	GENERAL ATOMICS SAN DIEGO									446,756	8,374
LAZ	GE, VALLECITOS NUCLEAR CENTER									9,564,449	222,530
LIC	GA TECHNOLOGIES, INC SAN DIEGO									36,287,148	1,223,697
MAW	COMBUSTION ENGINEERING, NUCLEAR									60,075	1,033
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.									454,613,300	4,305,185
MBL	MARTIN MARIETTA CORP, BALTIMORE									97,302	1,556
MBN	WHITTAKER CORP, NUC METALS DIVISION									229,288	5,619
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER									1,123,160	44,401
MBU	UNITED NUCLEAR CORP, RES & ENGR CNTR									4,900	146
MBY	VITRO CORPORATION OF AMERICA									645,800	31,702
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO									67,612,300	644,012
MCY	WESTINGHOUSE, FUEL MFG & DEV, CHESWICK									4,377,449	98,833
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV									9,317,600	88,238
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ									48,100	502
OCB										5,285,200	50,051
PAP	BABCOCK & WILCOX, APOLLO, NUC MATL & MFG									117,389	3,026
PZA	BETTIS ATOMIC POWER LABORATORY									6,395,551	83,985
QAB	INTERNATIONAL PROGRAMS CONTROL									17,604	496
QBA	REGULATORY OPERATIONS, HDQTRS, WASH									1,209	38
RAA	INTERNATIONAL PROGRAMS CONTROL									171,040	6,540
SDA&SRA	DUPONT SAVANNAH RIVER									15,000	142
SDA&SRO	DUPONT SAVANNAH RIVER									101,964,200	960,118
SNM										313,700	2,976
SRO&SRS	SYLOR DIVISION, HICKSVILLE, NY									30,504,900	288,882
TAX	KERR-MCGEE CORP, CIMARRON FACILITY									327,055	10,670
TBL	NUCLEAR MATERIAL AND EQUIPMENT									206,325	9,571

APPENDIX A.1 FEMP ENRICHED RECEIPTS

RECYCLED URANIUM PROJECT FEMP HISTORICAL DATA RECEIPTS OF ENRICHED URANIUM

RIS	EXTERNAL RECEIPTS ENRICHED URANIUM	FY1996		FY1997		FY1998		FY1999		TOTAL	
		U	U-235	U	U-235	U	U-235	U	U-235	U	U-235
	SITE	GMS	GMS	GMS	GMS	GMS	GMS	GMS	GMS	GMS	GMS
VAQ	CHEM NUCLEAR SYSTEMS, BARNWELL									227	2
VNB	NLO, INC FERNALD BURIAL GROUND									353,218	3,387
VVC	FEMP WASTE MANAGEMENT ACCOUNT									198,893	1,823
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY, NY									107,296,889	2,131,954
YEC	CIMARRON CORPORATION									10,951,206	212,150
YIM	NUCLEAR FUEL SERVICES, INTERNATIONAL ACCOUNT									19,250,700	521,100
YLE	WESTINGHOUSE, NES, WALTZ MILL SITE									2,987,230	92,607
YLM	WESTINGHOUSE, COMMERCIAL FUEL DIV.									252,559	10,158
YUD	SIEMENS POWER CORPORATION									2,050,824	78,653
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA	2,188	19							2,912	25
ZEF	COMBUSTION ENGINEERING, LEU, WINDSOR									3,464,871	80,136
ZGR	GENERAL ELECTRIC, NUCLEAR ENERGY, SAN JOSE									48,713	1,749
ZLD	LEDoux & COMPANY									467	9
ZQM	NUCLEAR FUEL SERVICES, INC.	1,542	13							6,727,162	105,473
ZQN	B&W NES, INC. NUCLEAR SERVICES									19,719,132	566,460
ZWQ	ABB COMBUSTION ENGINEERING, INC									3,174,037	81,979
ZWS	GENERAL ATOMIC CO, ELMSFORD, NY									7,463,599	209,190
ZYP	WESTINGHOUSE COMMERCIAL MFG, CHESWICK									15,069,246	502,192
ZZA	UNIVERSITY OF WISCONSIN, REACTOR LAB									1,844	43
FVCH	FEMP DISCARD TO HOLDING AREA									53,880,677	527,090
GVCH	FEMP DISCARD TO HOLDING AREA	4,288,008	39,884	5,491,775	54,439	3,519,805	34,212			72,965,415	727,152
MISC	NORMAL TO ENRICHED									7,669,921,674	54,772,290
MISC	DEPLETED TO ENRICHED									25,177,718	133,775
MISC	MISC									4,664,977,493	46,315,156
TOTAL	TOTAL	4,291,738	39,916	5,491,775	54,439	3,519,805	34,212			64,939,474,693	618,118,507

APPENDIX A.1
FEMP NORMAL RECEIPTS SUMMARIZED

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF NORMAL URANIUM

EXTERNAL RECEIPTS NORMAL URANIUM	FY1952-FY1961	FY1962-FY1969	FY1970-FY1979	FY1980-FY1989	FY1990-FY1999	TOTAL
SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
Pu PROCESSING PLANTS *	2,613,423	2,240,674	1,685,471	20,551	5	6,560,124
GASEOUS DIFFUSION PLANTS	-	9,505	130,429	777,627	-	917,561
WEAPONS PLANTS	-	5,169	13,398	3,856	-	22,423
U PROCESSING PLANTS	-	49,419,228	25,366	100,509	-	49,545,103
OTHER SITES	100,893,884	13,074,420	22,043,078	65,856	34,031	136,111,269
TOTAL	103,507,307	64,748,996	23,897,742	968,399	34,036	193,156,480

* INCLUDES SCRAP NOT PROCESSED

APPENDIX A.1
FEMP NORMAL RECEIPTS
SUMMARIZED

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF NORMAL URANIUM

EXTERNAL RECEIPTS NORMAL URANIUM	FY1952	FY1953	FY1954	FY1955	FY1956	FY1957	FY1958	FY1959	FY1960	FY1961	FY1962
RIS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
OAK RIDGE K-25	-	-	-	-	-	-	-	-	-	-	7,003
OAK RIDGE Y-12	-	-	-	-	-	-	-	-	-	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	-	-	2,318
PADUCAH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	-	-	154
REACTIVE METALS, INCORPORATED	-	-	-	-	-	-	-	-	-	-	166,004
WEST VALLEY	-	-	-	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-	-	-	4,239,454
HANFORD	-	-	-	-	-	-	-	-	-	-	152,690
SAVANAH RIVER	-	9,163	231,287	261,318	321,526	222,766	73,044	948,962	433,989	111,368	167,622
ROCKY FLATS	-	-	-	-	-	-	-	-	-	-	362
IDAHO	-	-	-	-	-	-	-	-	-	-	-
OTHER SITES	861,072	3,211,782	5,783,746	8,862,863	11,819,013	13,476,156	13,764,403	13,790,804	15,690,985	13,633,060	5,979,815
TOTAL	861,072	3,220,945	6,015,033	9,124,181	12,140,539	13,698,922	13,837,447	14,739,766	16,124,974	13,744,428	10,715,422

APPENDIX A.1
FEMP NORMAL RECEIPTS
SUMMARIZED

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF NORMAL URANIUM

EXTERNAL RECEIPTS NORMAL URANIUM	FY1963	FY1964	FY1965	FY1966	FY1967	FY1968 1st	FY1968 2nd	FY1969	FY1970	FY1971	FY1972
	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
RIS											
OAK RIDGE K-25	-	-	-	3	-	-	-	-	-	-	1,583
OAK RIDGE Y-12	6	-	-	-	-	-	1,998	-	-	-	12,628
PORTSMOUTH GASEOUS DIFFUSION PLANT	1	-	-	-	-	-	-	-	-	-	-
PADUCAH GASEOUS DIFFUSION PLANT	26	-	-	-	-	-	-	-	-	34,985	387
REACTIVE METALS, INCORPORATED	1,905,021	2,052,588	304,177	380,003	23,527	6,438	140	33,940	351	-	13,717
WEST VALLEY	-	-	-	-	-	4,351	4,198	4,378	-	-	-
WELDON SPRING	8,350,822	6,538,739	4,980,219	3,832,421	16,605,735	-	-	-	-	-	-
HANFORD	228,465	239,432	90,413	204,659	76,683	58,260	26,273	76,335	48,591	294,702	(87)
SAVANAH RIVER	269,711	308,833	77,865	96,528	70,675	414	51,931	30,958	30,731	2,766	55,419
ROCKY FLATS	528	529	645	230	865	2	4	-	1,038	(404)	175
IDAHO	-	-	-	-	-	-	-	-	-	-	-
OTHER SITES	3,446,844	1,145,925	871,927	748,712	760,437	21,420	37,901	61,439	969,304	185,926	4,813,035
TOTAL	14,201,424	10,286,046	6,325,246	5,262,556	17,537,922	90,885	122,445	207,050	1,050,015	517,975	4,896,857

**APPENDIX A.1
FEMP NORMAL RECEIPTS
SUMMARIZED**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF NORMAL URANIUM**

EXTERNAL RECEIPTS NORMAL URANIUM	FY1973	FY1974	FY1975	FY1976	FY1976A	FY1977	FY1978	FY1979	FY1980	FY1981	FY1982	FY1983	FY1984	FY1985
RIS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
OAK RIDGE K-25	-	15	-	-	-	17	-	-	-	32	-	-	116,453	120,946
OAK RIDGE Y-12	(92)	27	-	-	-	-	-	-	-	-	1,335	-	2,506	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	-	-	-	-	273,655	265,411
PADUCAH GASEOUS DIFFUSION PLANT	689	4,482	7,440	66,807	(41,300)	60,795	(5,471)	-	1,080	-	19	(2)	-	-
REACTIVE METALS, INCORPORATED	45	-	8,431	123	-	629	-	2,070	-	-	-	-	3,210	50,895
WEST VALLEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HANFORD	68	1,079,051	280	9,563	-	25,352	256	4,823	16	-	10	-	364	4,706
SAVANAH RIVER	61	42,641	2,649	14,623	-	22,034	-	51,948	-	-	943	-	351	2
ROCKY FLATS	26	-	-	-	-	-	-	-	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	17	(2)
OTHER SITES	34,106	7,385,277	8,128,748	120,637	291,057	90,258	14,836	9,894	6,594	793	5,008	4,293	6,617	10,992
TOTAL	34,903	8,511,493	8,147,548	211,753	249,757	199,085	9,621	68,735	7,690	825	7,315	4,291	403,173	452,950

**APPENDIX A.1
FEMP NORMAL RECEIPTS
SUMMARIZED**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF NORMAL URANIUM**

EXTERNAL RECEIPTS NORMAL URANIUM	FY1986 FVA	FY1986 FVC	FY1987	FY1988	FY1989	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995 FVC	FY1995 GVC	FY1996	FY1997
RIS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
OAK RIDGE K-25	33	-	-	-	-	-	-	-	-	-	-	-	-	-
OAK RIDGE Y-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PADUCAH GASEOUS DIFFUSION PLANT	203	30,087	16,450	-	(336)	-	-	-	-	-	-	-	5	-
REACTIVE METALS, INCORPORATED	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WEST VALLEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HANFORD	1,047	9,542	1,787	1,778	(2)	-	-	-	-	-	-	-	-	-
SAVANAH RIVER	-	7	-	-	-	-	-	-	-	-	-	-	-	-
ROCKY FLATS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER SITES	5,088	8,401	5,013	8,059	4,998	6,940	1,015	988	1,056	6,941	4	4,604	12,474	9
TOTAL	6,371	48,037	23,250	9,837	4,660	6,940	1,015	988	1,056	6,941	4	4,604	12,479	9

APPENDIX A.1
FEMP NORMAL RECEIPTS
SUMMARIZED

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF NORMAL URANIUM

EXTERNAL RECEIPTS NORMAL URANIUM	FY1998	FY1999	TOTAL
RIS	U KGS	U KGS	U KGS
OAK RIDGE K-25	-	-	246,085
OAK RIDGE Y-12	-	-	18,408
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	541,385
PADUCAH GASEOUS DIFFUSION PLANT	-	-	130,091
REACTIVE METALS, INCORPORATED	-	-	4,997,713
WEST VALLEY	-	-	12,932
WELDON SPRING	-	-	44,547,390
HANFORD	-	-	2,635,057
SAVANAH RIVER	-	-	3,912,135
ROCKY FLATS	-	-	4,000
IDAHO	-	-	15
OTHER SITES	-	-	136,111,269
TOTAL	-	-	193,156,480

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

EXTERNAL RECEIPTS NORMAL URANIUM			FY1952	FY1953	FY1954	FY1955	FY1956	FY1957	FY1958	FY1959	FY1960
RIS	SITE		U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
AGE	GENERAL ELECTRIC COMPANY, ATOMIC POWER EQUIP	OTHER									
AIC	ATOMICS INTERNATIONAL, CANOGA PARK CA	OTHER									
ALA	SANDIA NATIONAL LABS, ALBUQUERQUE	OTHER									
AMC		OTHER									
ANL	ARGONNE NATIONAL LAB	OTHER									
ARM	IIT RESEARCH INST, CHICAGO IL	OTHER									
ASA	DOW CHEMICAL USA, ROCKY FLATS DIV.	RF									
ATA	MASON & HANGER-SILAS MASON BURLINGTN	OTHER									
AUA	LOS ALAMOS NATIONAL LABORATORY	OTHER									
AVA	MONSANTO RESEARCH CORP. MOUND FACILITY	OTHER									
AVB	EG&G MOUND APPLIED TECHNOLOGIES, INC	OTHER									
AWA	MASON & HANGER, CO PANTEX PLANT	OTHER									
AXA	GENERAL ELECTRIC CO, PINELLAS	OTHER									
AYA	SILAS MASON CO, INC, MEDINA	OTHER									
AZA	MASON & HANGER, FORT CAMPBELL KY	OTHER									
BBA	RMI TITANIUM COMPANY	RMI									
BMI	BATTELLE MEMORIAL INST.	OTHER									
BWD	BECHTEL JACOBS COMPANY LLC	K25									
BXA	LMUS, USEC, PORTSMOUTH GDP	PORTS									
BZA	BROOKHAVEN RESEARCH LABORATORY	OTHER									
CAB	USAEC, SF MATERIALS ACCOUNTABILITY BRANCH, ORE	OTHER									
CAE	ATOMICS INT, DIV OF NA AVIATION, INC	OTHER									
CAF	BATTELLE, COLUMBUS DIVISION	OTHER									
CAK	AMES LABORATORY, IOWA STATE UNIV	OTHER									
CBB	BRUSH BERYLLIUM COMPANY	OTHER									
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY	OTHER									
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS	OTHER									
CCC	UNION CARBIDE NUCLEAR CO (K-25 PLANT)	K25									
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	OTHER									
CKY	UNION CARBIDE NUCLEAR CO. PADUCAH	PADU									
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)	Y12									
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS	OTHER									
CZC	ARGONNE NATIONAL LABORATORY, IDAHO	OTHER									
DAA	SAVANNAH RIVER OPERATIONS OFFICE	WV									
DCC	NUCLEAR FUEL SERVICES, ERWIN TN	OTHER									
DIA	DIVISION OF INTERNATIONAL AFFAIRS	OTHER									
DYA	SYLCOR DIVISION, HICKSVILLE NY	OTHER									
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY	SRP									
FAA	DOE OAK RIDGE OPERATIONS OFFICE	OTHER									
FAL	UNIVERSITY OF VIRGINIA	OTHER									
FAP	BABCOCK & WILCOX, NUCLEAR MATERIAL EXCEPT PU	OTHER									

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM		FY1952	FY1953	FY1954	FY1955	FY1956	FY1957	FY1958	FY1959	FY1960
RIS	SITE		U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
FAQ	N.L. INDUSTRIES, INC. NUC DIV. ALBANY, NY	OTHER									
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT	OTHER									
FBE	NEW BRUNSWICK LABORATORY, USAEC	OTHER									
FBZ	GOLF NUCLEAR FUELS, COMMERCIAL PRODUCT	OTHER									
FTA/BBA	RMI TITANIUM COMPANY	RMI									
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING	WS									
FYA	UNION CARBIDE, PGDP, PADUCAH, KY	PADU									
FYC	BECHTEL JACOBS CO., LLC, US	K25									
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN	K25									
FZB	UNION CARBIDE CORP., Y-12 PLANT	Y12									
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN	OTHER									
FZF	LOCKHEED MARTIN ENERGY SYSTEMS, Y-12	Y12									
GAA	GRAND JUNCTION OPERATIONS OFFICE	OTHER									
GAT	GOODYEAR ATOMIC CORP., PORTSMOUTH	PORTS									
GDA	GENERAL DYNAMICS, SAN DIEGO, CA	OTHER									
GWR		OTHER									
HAM	AJAX MAGNETHERMIC CORPORATION	HAN									
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA	HAN									
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA	HAN									
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD	HAN									
HUA	HANFORD ENGINEERING DEVELOPMENT LAB	HAN									
HUE	WESTINGHOUSE HANFORD, DEFENSE REACTOR DIV	HAN									
HVA	ATLANTIC RICHLAND HANFORD COMPANY	HAN									
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND	HAN									
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB	OTHER									
HZA	GENERAL ELECTRIC CO, RICHLAND	HAN									
IGC		OTHER									
ISC	IOWA STATE COLLEGE	OTHER									
JXI	LOCKHEED MARTIN ITC, ICPP	ID									
KZA	GENERAL ELECTRIC COMPANY, KNOLLS LAB	OTHER									
LAB	U OF CAL, LAWRENCE LAB, LIVERMORE CA	OTHER									
LAE	ROCKETDYNE, ROCKWELL INTL, SANTA SUSANA	OTHER									
LAL	ROCKETDYNE, ROCKWELL INTL, CANOGA	OTHER									
LAQ	ALBANY METALLURGY RESEARCH CENTER, OR	OTHER									
LAW	GA TECHNOLOGIES, INC SAN DIEGO	OTHER									
LAZ	GE, VALLECITOS NUCLEAR CENTER	OTHER									
LLB	SANDIA LABORATORIES, LIVERMORE	OTHER									
LMT		OTHER									
LST		OTHER									
LZA	U CALIFORNIA, LAWRENCE BERKELEY LAB	OTHER									
LZB	U CAL, LAWRENCE LIVERMORE LABORATORY	OTHER									
MAB	USEAC, CANEL PROJECT OFFICE	OTHER									

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM		FY1952	FY1953	FY1954	FY1955	FY1956	FY1957	FY1958	FY1959	FY1960
RIS	SITE		U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
MAP	AEORPROJECTS INC., WEST CHESTER PA	OTHER									
MAY	U. S. NATIONAL BUREAU OF STANDARDS	OTHER									
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.	OTHER									
MBB	REACTIVE METALS INC/BRIDGEPORT BRASS	RMI									
MBN	WHITTAKER CORP. NUC METALS DIVISION	OTHER									
MBP	UNIVERSITY OF ROCHESTER	OTHER									
MBS	NATIONAL BUREAU OF STANDARDS	OTHER									
MBU	UNITED NUCLEAR RESEARCH & ENGINEERING CENTER	OTHER									
MCC	THE CARBORUNDUM COMPANY, R&D DIVISION	OTHER									
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO	WS									
MIO	NUCLEAR METALS INC, WEST CONCORD MA	OTHER									
MMC	MARTIN MARIETTA CORP, NUCLEAR DIVISION	OTHER									
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV	OTHER									
MPW	PRATT & WHITNEY AIRCRAFT DIV, MIDDLETOWN CT	OTHER									
MSA	USAEC NY OPERATIONS, NEW YORK NY	OTHER									
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ	OTHER									
NBS		OTHER									
NCF	NATIONAL CARBON CO, FOSTORIA OH	OTHER									
NLA	NATIONAL LEAD, ALBANY NY	OTHER									
NME	NUCLEAR MATERIAL AND EQUIPMENT CORP., APOLLO PA	OTHER									
OCB		OTHER									
ORL	OAK RIDGE NATIONAL LABORATORY	OTHER									
PAB	DUQUESNE LIGHT COMPANY, SHIPPINGPORT PA	OTHER									
PZA	BETTIS ATOMIC POWER LABORATORY	OTHER									
QAA	USDOE, OFFICE OF SAFEGUARDS & SECURITY	OTHER									
QAC	USDOE, DIVISION OF RAW MATERIALS	OTHER									
RAD	UNIVERSITY OF CALIFORNIA	OTHER									
RMA		OTHER									
RNE	NETHERLANDS	OTHER									
SAF	MASON & HANGER, FORT CAMPBELL KY	OTHER									
SBN	MASON & HANGER, SAN ANTONIO TX	OTHER									
SBX	MONSANTO, MIAMISBURG, OH	OTHER									
SDA	DUPONT SAVANNAH RIVER	SRP		9,163	231,287	261,318	321,526	222,766	73,044	948,962	433,989
SFE	SANDIA CORPORATION	OTHER									
SFF	SILAS MASON COMPANY	OTHER									
SFJ	DOW CHEMICAL COMPANY, ROCKY FLATS PLANT	RF									
SGE	GENERAL ELECTRIC COMPANY, KNOLLS LAB	OTHER									
SOM	UNITED NUCLEAR COMPANY	OTHER									
SRS	SYLOR DIVISION, HICKSVILLE, NY	OTHER									
SYL	SYLVANIA ELECTRIC PRODUCTS, INC., BAYSIDE NY	OTHER									
UNC	UNITED NUCLEAR CORPORATION, CHEMICAL DIV	OTHER									
VAC	NATIONAL RESEARCH, CAMBRIDGE MA	OTHER									

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM		FY1952	FY1953	FY1954	FY1955	FY1956	FY1957	FY1958	FY1959	FY1960
RJS	SITE		U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
VPI		OTHER									
VVB	NLO, INC OHIO BURIAL GROUND	OTHER									
WCE		OTHER									
WCP	COMBUSTION ENGINEERING INC., WINDSOR CT	OTHER									
WEB	WESTINGHOUSE BETTIS, PITTSBURGH PA	OTHER									
YAM	COAST GUARD ACADEMY, NEW LONDON CT	OTHER									
YEF	SMITHSONIAN INSTITUTE	OTHER									
YGU	THE CITIDAL CHARLESTON, SC	OTHER									
YHP	MURRAY STATE UNIVERSITY, PHYSICS	OTHER									
YJL	COLGATE UNIVERSITY, PHYSICS	OTHER									
YPF	AUBURN UNIVERSITY, SAFETY & EH	OTHER									
YST	AEROJET ORDNANCE TENNESSEE	OTHER									
ZCM	BUCKNELL UNIVERSITY, PHYSICS	OTHER									
ZCY	CARNEGIE-MELLON U, NUCLEAR RESEARCH	OTHER									
ZDB	CASE WESTERN RESERVE U, NRC	OTHER									
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA	OTHER									
ZDS	CLARK COLLEGE	OTHER									
ZDT	CLARKSON UNIVERSITY	OTHER									
ZFZ	FAIRLEIGH DICKINSON U, TEANECK-HACK	OTHER									
ZIJ	ALARON CORPORATION	OTHER									
ZKB	IOWA STATE U, NUCLEAR ENGINEERING	OTHER									
ZKL	KANSAS STATE U, AG & APPLIED SCIENCE	OTHER									
ZLR	LOUISIANA TECH U, NUCLEAR CENTER	OTHER									
ZLU	U OF LOUISVILLE, SPEED SCIENTIFIC	OTHER									
ZMH	MANHATTAN COLLEGE, MECHANICAL ENG	OTHER									
ZMK	MARQUETTE UNIVERSITY, BIOLOGY	OTHER									
ZMR	UNIVERSITY OF MARYLAND, ENV. SAFETY	OTHER									
ZND	UNIVERSITY OF MINNISOTA, U HEALTH SERVICE	OTHER									
ZNG	UNIVERSITY OF MISSISSIPPI, ESO	OTHER									
ZPG	UNIVERSITY OF NEVADA, DESERT RESEARCH INST	OTHER									
ZQC	NORTHEASTERN UNIVERSITY	OTHER									
ZQG	NORTHWESTERN U, RESEARCH SAFETY	OTHER									
ZQM	NUCLEAR FUEL SERVICES, INC	WV									
ZQX	OHIO UNIVERSITY, ARTS & SCIENCES	OTHER									
ZSF	UNIVERSITY OF PITTSBURGH, RSO	OTHER									
ZTE	UNIVERSITY OF RHODE ISLAND, KINGSTON	OTHER									
ZVF	SYRACUSE UNIVERSITY	OTHER									
ZVX	TEXAS TECH UNIVERSITY, EH&S	OTHER									
ZWB	UNIVERSITY OF TOLEDO	OTHER									
ZWY	UTAH STATE UNIVERSITY, EH&S	OTHER									
ZXA	VANDERBILT U, MECHANICAL ENGINEERING	OTHER									
ZXF	VILLANOVA UNIVERSITY, PHYSICS	OTHER									

**APPENDIX A.1
FEMP NORMAL RECEIPTS**

**FEMP HISTORICAL DATA
RECEIPTS OF NORMAL URANIUM**

	EXTERNAL RECEIPTS NORMAL URANIUM		FY1952	FY1953	FY1954	FY1955	FY1956	FY1957	FY1958	FY1959	FY1960
RIS	SITE		U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
ZXH	VIRGINIA POLYTECHNIC INSTITUTE	OTHER									
ZXZ	WASHINGTON UNIVERSITY, ST. LOUIS MO	OTHER									
ZYG	WV INSTITUTE OF TECHNOLOGY	OTHER									
ZYH	WEST VIRGINIA UNIVERSITY	OTHER									
ZZM	YALE UNIVERSITY	OTHER									
RBRU	IPR-RI	OTHER									
RDDW	NATU METAL, EL DORADO NUCLEAR LTD	OTHER									
FVCH	FEMP DISCARD TO HOLDING AREA	OTHER									
GVCH	FEMP DISCARD TO HOLDING AREA	OTHER									
MISC	NORMAL TO ENRICHED	OTHER									
MISC	NORMAL TO DEPLETED	OTHER									
MISC	MISCELLANEOUS	OTHER	861,072	3,211,782	5,783,746	8,862,863	11,819,013	13,476,156	13,764,403	13,790,804	15,690,985
TOTAL			861,072	3,220,945	6,015,033	9,124,181	12,140,539	13,698,922	13,837,447	14,739,766	16,124,974

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1961	FY1962	FY1963	FY1964	FY1965	FY1966	FY1967	FY1968 1st	FY1968 2nd	FY1969
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
AGE	GENERAL ELECTRIC COMPANY, ATOMIC POWER EQUIP		38	53							
AIC	ATOMICS INTERNATIONAL, CANOGA PARK CA		798	986	1,290						
ALA	SANDIA NATIONAL LABS, ALBUQUERQUE					39					
AMC			6,626	20,441							
ANL	ARGONNE NATIONAL LAB		10,288	84	1,225						
ARM	IIT RESEARCH INST, CHICAGO IL				164						
ASA	DOW CHEMICAL USA, ROCKY FLATS DIV.					645	230	865	2	4	
ATA	MASON & HANGER-SILAS MASON BURLINGTN						4,619	4,265	2,452	1	
AUA	LOS ALAMOS NATIONAL LABORATORY							8,244			
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY										135
AVB	EG&G MOUND APPLIED TECHNOLOGIES, INC										
AWA	MASON & HANGER, CO PANTEX PLANT						2,914	744			
AXA	GENERAL ELECTRIC CO, PINELLAS										
AYA	SILAS MASON CO, INC, MEDINA					1,809					
AZA	MASON & HANGER, FORT CAMPBELL KY					6,316					
BBA	RMI TITANIUM COMPANY		155,971	1,901,440	2,044,987	(27)					
BMI	BATTELLE MEMORIAL INST.		413	630	2,801						
BWD	BECHTEL JACOBS COMPANY LLC										
BXA	LMUS, USEC, PORTSMOUTH GDP										
BZA	BROOKHAVEN RESEARCH LABORATORY					1,140			102		
CAB	USAEC, SF MATERIALS ACCOUNTABILITY BRANCH, ORE			4							
CAE	ATOMICS INT, DIV OF NA AVIATION, INC					437					
CAF	BATTELLE, COLUMBUS DIVISION					886	91	4			23
CAK	AMES LABORATORY, IOWA STATE UNIV										
CBB	BRUSH BERYLLIUM COMPANY		45								
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY										
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS										
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)		7,003								
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY										
CKY	UNION CARBIDE NUCLEAR CO. PADUCAH		154	26							
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)			6							
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS					3,424	234			114	1
CZC	ARGONNE NATIONAL LABORATORY, IDAHO										
DAA	SAVANNAH RIVER OPERATIONS OFFICE								4,351	4,198	4,378
DCC	NUCLEAR FUEL SERVICES, ERWIN TN				569						
DIA	DIVISION OF INTERNATIONAL AFFAIRS			67							
DYA	SYLCOR DIVISION, HICKSVILLE NY					35,709	18,114				
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY					77,867	96,528	70,675	414	51,931	30,958
FAA	DOE OAK RIDGE OPERATIONS OFFICE					40					
FAL	UNIVERSITY OF VIRGINIA										
FAP	BABCOCK & WILCOX, NUCLEAR MATERIAL EXCEPT PU						54				

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1961	FY1962	FY1963	FY1964	FY1965	FY1966	FY1967	FY1968 1st	FY1968 2nd	FY1969
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
FAQ	N.L. INDUSTRIES, INC. NUC DIV, ALBANY, NY					97	202		259		
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT										
FBE	NEW BRUNSWICK LABORATORY, USAEC					740	11	3	3		3
FBZ	GOLF NUCLEAR FUELS, COMMERCIAL PRODUCT							334			
FTA/BBA	RMI TITANIUM COMPANY					294,089	380,003	23,527	6,438	140	33,940
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING					4,966,831	3,832,421	16,605,735			
FYA	UNION CARBIDE, PGDP, PADUCAH, KY										
FVC	BECHTEL JACOBS CO, LLC, US										
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN						3				
FZB	UNION CARBIDE CORP, Y-12 PLANT									1,998	
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN					1,707	7,720		74		
FZF	LOCKHEED MARTIN ENERGY SYSTEMS, Y-12										
GAA	GRAND JUNCTION OPERATIONS OFFICE										
GAT	GOODYEAR ATOMIC CORP., PORTSMOUTH		2,318	1							
GDA	GENERAL DYNAMICS, SAN DIEGO, CA				20						
GWR			1,967								
HAM	AJAX MAGNETHERMIC CORPORATION		1,076								
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA		151,614	206,718	239,432	1,058					
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA			21,747							
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD										
HUA	HANFORD ENGINEERING DEVELOPMENT LAB										
HUE	WESTINGHOUSE HANFORD, DEFENSE REACTOR DIV										
HVA	ATLANTIC RICHLAND HANFORD COMPANY										
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND						82,472	72,816	58,260	26,273	76,335
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB							1,692			3
HZA	GENERAL ELECTRIC CO, RICHLAND					89,355	122,187	3,867			
IGC			3,031								
ISC	IOWA STATE COLLEGE		62		46						
JXI	LOCKHEED MARTIN ITC, ICPP										
KZA	GENERAL ELECTRIC COMPANY, KNOLLS LAB							314			
LAB	U OF CAL, LAWRENCE LAB, LIVERMORE CA				22						
LAE	ROCKETDYNE, ROCKWELL INTL, SANTA SUSANA							248	68	1,596	
LAL	ROCKETDYNE, ROCKWELL INTL, CANOGA										
LAO	ALBANY METALLURGY RESEARCH CENTER, OR										
LAW	GA TECHNOLOGIES, INC SAN DIEGO								5		
LAZ	GE, VALLECITOS NUCLEAR CENTER							2,762	631		
LLB	SANDIA LABORATORIES, LIVERMORE					553					
LMT			15,559								
LST			(284)								
LZA	U CALIFORNIA, LAWRENCE BERKELEY LAB										
LZB	U CAL, LAWRENCE LIVERMORE LABORATORY										234
MAB	USEAC, CANEL PROJECT OFFICE						21				

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1961	FY1962	FY1963	FY1964	FY1965	FY1966	FY1967	FY1968 1st	FY1968 2nd	FY1969
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
MAP	AEORPROJECTS INC., WEST CHESTER PA			10							
MAY	U. S. NATIONAL BUREAU OF STANDARDS					478					
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.		275,358								
MBB	REACTIVE METALS INC/BRIDGEPORT BRASS		10,033	3,581	7,601	10,115					
MBN	WHITTAKER CORP, NUC METALS DIVISION					2,392	2,453	4,941	89		
MBP	UNIVERSITY OF ROCHESTER							59			
MBS	NATIONAL BUREAU OF STANDARDS				22						
MBU	UNITED NUCLEAR RESEARCH & ENGINEERING CENTER						1,261				
MCC	THE CARBORUNDUM COMPANY, R&D DIVISION			9							
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO		4,239,454	8,350,822	6,538,739	13,388					
MIO	NUCLEAR METALS INC, WEST CONCORD MA		6,891	1	17,365						
MMC	MARTIN MARIETTA CORP, NUCLEAR DIVISION			1,001							
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV		4,464	13,143							
MPW	PRATT & WHITNEY AIRCRAFT DIV, MIDDLETOWN CT			24	10						
MSA	USAEC NY OPERATIONS, NEW YORK NY		84		6						
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ		508	16	14						
NBS			68								
NCF	NATIONAL CARBON CO, FOSTORIA OH			47							
NLA	NATIONAL LEAD, ALBANY NY				44						
NME	NUCLEAR MATERIAL AND EQUIPMENT CORP., APOLLO PA				6,942						
OCB			5,984								
ORL	OAK RIDGE NATIONAL LABORATORY				1						
PAB	DUQUESNE LIGHT COMPANY, SHIPPINGPORT PA							707			
PZA	BETTIS ATOMIC POWER LABORATORY					7,789	10,011	92		1,548	
QAA	USDOE,OFFICE OF SAFEGUARDS & SECURITY										
QAC	USDOE,DIVISION OF RAW MATERIALS					708,570	677,424	711,474			
RAD	UNIVERSITY OF CALIFORNIA			2,692							
RMA			5,268,971	2,978,607	835,415	599					
RNE	NETHERLANDS										
SAF	MASON & HANGER, FORT CAMPBELL KY		22,037		28,564						
SBN	MASON & HANGER, SAN ANTONIO TX		21,730		10,031	5,272					
SBX	MONSANTO, MIAMISBURG, OH		10								
SDA	DUPONT SAVANNAH RIVER	111,368	167,622	269,711	308,833	(2)					
SFE	SANDIA CORPORATION			41							
SFF	SILAS MASON COMPANY		298	74							
SFJ	DOW CHEMICAL COMPANY, ROCKY FLATS PLANT		362	528	529						
SGE	GENERAL ELECTRIC COMPANY, KNOLLS LAB		137	1,110							
SOM	UNITED NUCLEAR COMPANY				9						
SRS	SYLCOR DIVISION, HICKSVILLE, NY		315,105	408,964	222,200						
SYL	SYLVANIA ELECTRIC PRODUCTS, INC., BAYSIDE NY		551								
UNC	UNITED NUCLEAR CORPORATION, CHEMICAL DIV			94							
VAC	NATIONAL RESEARCH, CAMBRIDGE MA				54						

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1961	FY1962	FY1963	FY1964	FY1965	FY1966	FY1967	FY1968 1st	FY1968 2nd	FY1969
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
VPI				50							
VVB	NLO, INC OHIO BURIAL GROUND										
WCE			1								
WCP	COMBUSTION ENGINEERING INC. WINDSOR CT					23					
WEB	WESTINGHOUSE BETTIS, PITTSBURGH PA		14,370	9,769	6,615						
YAM	COAST GUARD ACADEMY, NEW LONDON CT										
YEF	SMITHSONIAN INSTITUTE										
YGU	THE CITIDAL CHARLESTON, SC										
YHP	MURRAY STATE UNIVERSITY, PHYSICS										
YJL	COLGATE UNIVERSITY, PHYSICS										
YPF	AUBURN UNIVERSITY, SAFETY & EH										
YST	AEROJET ORDNANCE TENNESSEE										
ZCM	BUCKNELL UNIVERSITY, PHYSICS										
ZCY	CARNEGIE-MELLON U, NUCLEAR RESEARCH										
ZDB	CASE WESTERN RESERVE U, NRC										
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA										
ZDS	CLARK COLLEGE										
ZDT	CLARKSON UNIVERSITY										
ZFZ	FAIRLEIGH DICKINSON U, TEANECK-HACK										
ZIJ	ALARON CORPORATION										
ZKB	IOWA STATE U, NUCLEAR ENGINEERING										
ZKL	KANSAS STATE U, AG & APPLIED SCIENCE										
ZLR	LOUISIANA TECH U, NUCLEAR CENTER										
ZLU	U OF LOUISVILLE, SPEED SCIENTIFIC										
ZMH	MANHATTAN COLLEGE, MECHANICAL ENG.										
ZMK	MARQUETTE UNIVERSITY, BIOLOGY										
ZMR	UNIVERSITY OF MARYLAND, ENV. SAFETY										
ZND	UNIVERSITY OF MINNISOTA, U HEALTH SERVICE										
ZNG	UNIVERSITY OF MISSISSIPPI, ESO										
ZPG	UNIVERSITY OF NEVADA, DESERT RESEARCH INST										
ZQC	NORTHEASTERN UNIVERSITY										
ZQG	NORTHWESTERN U, RESEARCH SAFETY										
ZQM	NUCLEAR FUEL SERVICES, INC										
ZQX	OHIO UNIVERSITY, ARTS & SCIENCES										
ZSF	UNIVERSITY OF PITTSBURGH, RSO										
ZTE	UNIVERSITY OF RHODE ISLAND, KINGSTON										
ZVF	SYRACUSE UNIVERSITY										
ZVX	TEXAS TECH UNIVERSITY, EH&S										
ZWB	UNIVERSITY OF TOLEDO										
ZWY	UTAH STATE UNIVERSITY, EH&S										
ZXA	VANDERBILT U, MECHANICAL ENGINEERING										
ZXF	VILLANOVA UNIVERSITY, PHYSICS										

APPENDIX A.1
FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA
RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1961	FY1962	FY1963	FY1964	FY1965	FY1966	FY1967	FY1968 1st	FY1968 2nd	FY1969
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
ZXH	VIRGINIA POLYTECHNIC INSTITUTE										
ZXZ	WASHINGTON UNIVERSITY, ST. LOUIS MO										
ZYG	WV INSTITUTE OF TECHNOLOGY										
ZYH	WEST VIRGINIA UNIVERSITY										
ZZM	YALE UNIVERSITY										
RBRU	IPR-R1										
RDDW	NATU METAL, EL DORADO NUCLEAR LTD										
FVCH	FEMP DISCARD TO HOLDING AREA										
GVCH	FEMP DISCARD TO HOLDING AREA										
MISC	NORMAL TO ENRICHED		4,705	7,902	7,593	90,007	8,276	7,924	5,242		61,040
MISC	NORMAL TO DEPLETED			1,025	4,903	3,900	15,307	16,630	12,495		
MISC	MISCELLANEOUS	13,633,060								34,642	
TOTAL		13,744,428	10,715,422	14,201,424	10,286,046	6,325,246	5,262,556	17,537,922	90,885	122,445	207,050

APPENDIX A.1
FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA
RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1970	FY1971	FY1972	FY1973	FY1974	FY1975	FY1976	FY1976A	FY1977	FY1978	FY1979	FY1980	FY1981
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
AGE	GENERAL ELECTRIC COMPANY, ATOMIC POWER EQUIP													
AIC	ATOMICS INTERNATIONAL, CANOGA PARK CA													
ALA	SANDIA NATIONAL LABS, ALBUQUERQUE													
AMC														
ANL	ARGONNE NATIONAL LAB													
ARM	IIT RESEARCH INST, CHICAGO IL													
ASA	DOW CHEMICAL USA, ROCKY FLATS DIV.	1,038	(404)	175	26									
ATA	MASON & HANGER-SILAS MASON BURLINGTN		245											
AUA	LOS ALAMOS NATIONAL LABORATORY												749	33
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY													
AVB	EG&G MOUND APPLIED TECHNOLOGIES, INC													
AWA	MASON & HANGER, CO PANTEX PLANT													
AXA	GENERAL ELECTRIC CO, PINELLAS		5											
AYA	SILAS MASON CO, INC, MEDINA													
AZA	MASON & HANGER, FORT CAMPBELL KY													
BBA	RMI TITANIUM COMPANY													
BMI	BATTELLE MEMORIAL INST.													
BWD	BECHTEL JACOBS COMPANY LLC													
BXA	LMUS, USEC, PORTSMOUTH GDP													
BZA	BROOKHAVEN RESEARCH LABORATORY													
CAB	USAEC, SF MATERIALS ACCOUNTABILITY BRANCH, ORE													
CAE	ATOMICS INT, DIV OF NA AVIATION, INC													
CAF	BATTELLE, COLUMBUS DIVISION	6												
CAK	AMES LABORATORY, IOWA STATE UNIV	287	375		163		454							683
CBH	BRUSH BERYLLIUM COMPANY													
CBJ	NEW BRUNSWICK LABORATORY, NEW JERSEY					25				369				
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS													
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)													
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY										6,372			
CKY	UNION CARBIDE NUCLEAR CO. PADUCAH													
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)													
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS		130	1,734	178		12,680							
CZC	ARGONNE NATIONAL LABORATORY, IDAHO		1,798											
DAA	SAVANNAH RIVER OPERATIONS OFFICE													
DCC	NUCLEAR FUEL SERVICES, ERWIN TN													
DIA	DIVISION OF INTERNATIONAL AFFAIRS													
DYA	SYLCOR DIVISION, HICKSVILLE NY													
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY	30,731	2,766	55,419	61	42,641	2,649	14,623		22,034		51,948		
FAA	DOE OAK RIDGE OPERATIONS OFFICE			3,614,456										
FAL	UNIVERSITY OF VIRGINIA													
FAP	BABCOCK & WILCOX, NUCLEAR MATERIAL EXCEPT PU													

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1970	FY1971	FY1972	FY1973	FY1974	FY1975	FY1976	FY1976A	FY1977	FY1978	FY1979	FY1980	FY1981
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
FAQ	N.L.INDUSTRIES,INC.NUC DIV,ALBANY,NY													
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT	53	1,149											
FBE	NEW BRUNSWICK LABORATORY, USAEC	4	1	262										
FBZ	GOLF NUCLEAR FUELS, COMMERCIAL PRODUCT													
FTA/BBA	RMI TITANIUM COMPANY	351		13,717	45		8,431	123		629		2,070		
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING													
FYA	UNION CARBIDE, PGDP, PADUCAH, KY		34,985	387	689	4,482	7,440	66,807	(41,300)	60,795	(5,471)		1,080	
FYC	BECHTEL JACOBS CO.,LLC,US													
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN			1,583		15				17				32
FZB	UNION CARBIDE CORP, Y-12 PLANT			12,628	(92)	27								
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN		108		2	30				16				
FZF	LOCKHEED MARTIN ENERGY SYSTEMS, Y-12													
GAA	GRAND JUNCTION OPERATIONS OFFICE			1,118,008		7,339,134	8,101,926							
GAT	GOODYEAR ATOMIC CORP., PORTSMOUTH													
GDA	GENERAL DYNAMICS, SAN DIEGO, CA													
GWR														
IIAM	AJAX MAGNETHERMIC CORPORATION													
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA													
RLA&IHGE	GENERAL ELECTRIC CO, RICHLAND WA													
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD													
IIUA	HANFORD ENGINEERING DEVELOPMENT LAB				66		1							
HUE	WESTINGHOUSE HANFORD,DEFENSE REACTOR DIV													
IIVA	ATLANTIC RICHLAND HANFORD COMPANY	13								222				
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND	48,578	294,702	(87)	2	1,079,051	279	9,563		25,130	256	4,823	16	
IIYA	BATTELLE MEMORIAL INST,PACIFIC NW LB	2,640	1,465	6,269	(32)	10,288	3	160		(2)				
HZA	GENERAL ELECTRIC CO, RICHLAND													
IGC														
ISC	IOWA STATE COLLEGE													
JXI	LOCKHEED MARTIN ITC, ICPP													
KZA	GENERAL ELECTRIC COMPANY, KNOLLS LAB	13												
LAB	U OF CAL, LAWRENCE LAB, LIVERMORE CA													
LAE	ROCKETDYNE,ROCKWLL INTL,SANTA SUSANA		188	(3)	1,146	56								
LAL	ROCKETDYNE, ROCKWELL INTL, CANOGA										14			
LAQ	ALBANY METALLURGY RESEARCH CENTER, OR			5										
LAW	GA TECHNOLOGIES, INC SAN DIEGO	466												
LAZ	GE,VALLECITOS NUCLEAR CENTER													
LLB	SANDIA LABORATORIES, LIVERMORE													
LMT														
LST														
LZA	U CALIFORNIA,LAWRENCE BERKELEY LAB									193				
LZB	U CAL, LAWRENCE LIVERMORE LABORATORY				111									
MAB	USEAC, CANEL PROJECT OFFICE													

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1970	FY1971	FY1972	FY1973	FY1974	FY1975	FY1976	FY1976A	FY1977	FY1978	FY1979	FY1980	FY1981
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
MAP	AEORPROJECTS INC., WEST CHESTER PA													
MAY	U. S. NATIONAL BUREAU OF STANDARDS													
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.													
MBB	REACTIVE METALS INC/BRIDGEPORT BRASS													
MBN	WHITTAKER CORP, NUC METALS DIVISION													
MBP	UNIVERSITY OF ROCHESTER													
MBS	NATIONAL BUREAU OF STANDARDS													
MBU	UNITED NUCLEAR RESEARCH & ENGINEERING CENTER													
MCC	THE CARBORUNDUM COMPANY, R&D DIVISION													
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO													
MIO	NUCLEAR METALS INC, WEST CONCORD MA													
MMC	MARTIN MARIETTA CORP, NUCLEAR DIVISION													
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV													
MPW	PRATT & WHITNEY AIRCRAFT DIV, MIDDLETOWN CT													
MSA	USAEC NY OPERATIONS, NEW YORK NY													
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ													
NBS														
NCF	NATIONAL CARBON CO, FOSTORIA OH													
NLA	NATIONAL LEAD, ALBANY NY													
NME	NUCLEAR MATERIAL AND EQUIPMENT CORP., APOLLO PA													
OCB														
ORL	OAK RIDGE NATIONAL LABORATORY													
PAB	DUQUESNE LIGHT COMPANY, SHIPPINGPORT PA						1,551					1		
PZA	BETTIS ATOMIC POWER LABORATORY	4,971	3,349	50,165	1,386	7,803		681		133	1,308	6		61
QAA	USDOE, OFFICE OF SAFEGUARDS & SECURITY												5	
QAC	USDOE, DIVISION OF RAW MATERIALS													
RAD	UNIVERSITY OF CALIFORNIA													
RMA														
RNE	NETHERLANDS		1,995											
SAF	MASON & HANGER, FORT CAMPBELL KY													
SBN	MASON & HANGER, SAN ANTONIO TX													
SBX	MONSANTO, MIAMISBURG, OH													
SDA	DUPONT SAVANNAH RIVER													
SFE	SANDIA CORPORATION													
SFF	SILAS MASON COMPANY													
SFJ	DOW CHEMICAL COMPANY, ROCKY FLATS PLANT													
SGE	GENERAL ELECTRIC COMPANY, KNOLLS LAB													
SOM	UNITED NUCLEAR COMPANY													
SRS	SYLOR DIVISION, HICKSVILLE, NY													
SYL	SYLVANIA ELECTRIC PRODUCTS, INC., BAYSIDE NY													
UNC	UNITED NUCLEAR CORPORATION, CHEMICAL DIV													
VAC	NATIONAL RESEARCH, CAMBRIDGE MA													

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1970	FY1971	FY1972	FY1973	FY1974	FY1975	FY1976	FY1976A	FY1977	FY1978	FY1979	FY1980	FY1981
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
VPI														
VVB	NLO, INC OHIO BURIAL GROUND													
WCE														
WCP	COMBUSTION ENGINEERING INC., WINDSOR CT													
WEB	WESTINGHOUSE BETTIS, PITTSBURGH PA													
YAM	COAST GUARD ACADEMY, NEW LONDON CT								2,495					
YEF	SMITHSONIAN INSTITUTE													
YGU	THE CITIDAL CHARLESTON, SC													
YHP	MURRAY STATE UNIVERSITY, PHYSICS								3,294					
YJL	COLGATE UNIVERSITY, PHYSICS													
YPF	AUBURN UNIVERSITY, SAFETY & EH													
YST	ABROJET ORDNANCE TENNESSEE													
ZCM	BUCKNELL UNIVERSITY, PHYSICS								2,494					
ZCY	CARNEGIE-MELLON U, NUCLEAR RESEARCH										2,447			
ZDB	CASE WESTERN RESERVE U, NRC								2,480					
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA													
ZDS	CLARK COLLEGE													
ZDT	CLARKSON UNIVERSITY													
ZFZ	FAIRLEIGH DICKINSON U, TEANECK-HACK									2,479				
ZIJ	ALARON CORPORATION													
ZKB	IOWA STATE U, NUCLEAR ENGINEERING												3,090	
ZKL	KANSAS STATE U, AG & APPLIED SCIENCE								2,498					
ZLR	LOUISIANA TECH U, NUCLEAR CENTER													
ZLU	U OF LOUISVILLE, SPEED SCIENTIFIC										2,195			
ZMH	MANHATTAN COLLEGE, MECHANICAL ENG												11	
ZMK	MARQUETTE UNIVERSITY, BIOLOGY													
ZMR	UNIVERSITY OF MARYLAND, ENV. SAFETY										2,500			
ZND	UNIVERSITY OF MINNISOTA, U HEALTH SERVICE													
ZNG	UNIVERSITY OF MISSISSIPPI, ESO												2,494	
ZPG	UNIVERSITY OF NEVADA, DESERT RESEARCH INST													
ZQC	NORTHEASTERN UNIVERSITY													
ZQG	NORTHWESTERN U, RESEARCH SAFETY													
ZQM	NUCLEAR FUEL SERVICES, INC													
ZQX	OHIO UNIVERSITY, ARTS & SCIENCES								2,308					
ZSF	UNIVERSITY OF PITTSBURGH, RSO											2,494		
ZTE	UNIVERSITY OF RHODE ISLAND, KINGSTON													
ZVF	SYRACUSE UNIVERSITY											2,500		
ZVX	TEXAS TECH UNIVERSITY, EH&S													
ZWB	UNIVERSITY OF TOLEDO													
ZWY	UTAH STATE UNIVERSITY, EH&S													
ZXA	VANDERBILT U, MECHANICAL ENGINEERING													
ZXF	VILLANOVA UNIVERSITY, PHYSICS													

**APPENDIX A.1
FEMP NORMAL RECEIPTS**

**FEMP HISTORICAL DATA
RECEIPTS OF NORMAL URANIUM**

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1970	FY1971	FY1972	FY1973	FY1974	FY1975	FY1976	FY1976A	FY1977	FY1978	FY1979	FY1980	FY1981
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
ZXH	VIRGINIA POLYTECHNIC INSTITUTE													
ZXZ	WASHINGTON UNIVERSITY, ST. LOUIS MO						2,495							
ZYG	WV INSTITUTE OF TECHNOLOGY													
ZYH	WEST VIRGINIA UNIVERSITY						1,813							
ZZM	YALE UNIVERSITY						2,500							
RBRU	IPR-RJ											4,893		
RDDW	NATU METAL, EL DORADO NUCLEAR LTD													
FVCH	FEMP DISCARD TO HOLDING AREA													
GVCH	FEMP DISCARD TO HOLDING AREA													
MISC	NORMAL TO ENRICHED	958,207	175,118	22,139	22,281	21,446	2,599	18,505	94,806	87,070			9	16
MISC	NORMAL TO DEPLETED				8,871	6,495	2,727	88,030	193,943					
MISC	MISCELLANEOUS	2,657											236	
TOTAL		1,050,015	517,975	4,896,857	34,903	8,511,493	8,147,548	211,753	249,757	199,085	9,621	68,735	7,690	825

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1982	FY1983	FY1984	FY1985	FY1986 FVA	FY1986 FVC	FY1987	FY1988	FY1989	FY1990	FY1991	FY1992	FY1993	FY1994
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
AGE	GENERAL ELECTRIC COMPANY, ATOMIC POWER EQUIP														
AIC	ATOMICS INTERNATIONAL, CANOGA PARK CA														
ALA	SANDIA NATIONAL LABS, ALBUQUERQUE														
AMC															
ANL	ARGONNE NATIONAL LAB														
ARM	IIT RESEARCH INST, CHICAGO IL														
ASA	DOW CHEMICAL USA, ROCKY FLATS DIV.														
ATA	MASON & HANGER-SILAS MASON BURLINGTN														
AUA	LOS ALAMOS NATIONAL LABORATORY														
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY														
AVB	EG&G MOUND APPLIED TECHNOLOGIES, INC										6,935				
AWA	MASON & HANGER, CO PANTEX PLANT														
AXA	GENERAL ELECTRIC CO, PINELLAS														
AYA	SILAS MASON CO, INC, MEDINA														
AZA	MASON & HANGER, FORT CAMPBELL KY														
BBA	RMI TITANIUM COMPANY														
BMI	BATTELLE MEMORIAL INST.														
BWD	BECHTEL JACOBS COMPANY LLC				120,946										
BXA	LMUS, USEC, PORTSMOUTH GDP			273,655	265,411										
BZA	BROOKHAVEN RESEARCH LABORATORY														
CAB	USAEC, SF MATERIALS ACCOUNTABILITY BRANCH, ORE														
CAE	ATOMICS INT, DIV OF NA AVIATION, INC														
CAF	BATTELLE, COLUMBUS DIVISION														
CAK	AMES LABORATORY, IOWA STATE UNIV		2	28											
CBB	BRUSH BERYLLIUM COMPANY														
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY														
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS				29			1							
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)														
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY							13							
CKY	UNION CARBIDE NUCLEAR CO. PADUCAH														
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)														
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS														
CZC	ARGONNE NATIONAL LABORATORY, IDAHO														
DAA	SAVANNAH RIVER OPERATIONS OFFICE														
DCC	NUCLEAR FUEL SERVICES, ERWIN TN														
DIA	DIVISION OF INTERNATIONAL AFFAIRS														
DYA	SYLCOR DIVISION, HICKSVILLE NY														
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY	943		351	2		7								
FAA	DOE OAK RIDGE OPERATIONS OFFICE	12													
FAL	UNIVERSITY OF VIRGINIA	5													
FAP	BABCOCK & WILCOX, NUCLEAR MATERIAL EXCEPT PU														

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1982	FY1983	FY1984	FY1985	FY1986 FVA	FY1986 FVC	FY1987	FY1988	FY1989	FY1990	FY1991	FY1992	FY1993	FY1994
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
FAQ	N.L.INDUSTRIES,INC.NUC DIV,ALBANY,NY														
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT														
FBE	NEW BRUNSWICK LABORATORY, USAEC														
FBZ	GOLF NUCLEAR FUELS, COMMERCIAL PRODUCT														
FTA/BBA	RMI TITANIUM COMPANY			3,210	50,895	203	30,087	16,450		(336)					
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING														
FYA	UNION CARBIDE, PGDP, PADUCAH, KY	19	(2)												
FYC	BECHTEL JACOBS CO, LLC,US			116,453		33									
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN														
FZB	UNION CARBIDE CORP, Y-12 PLANT	1,335													
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN														
FZF	LOCKHEED MARTIN ENERGY SYSTEMS, Y-12			2,506											
GAA	GRAND JUNCTION OPERATIONS OFFICE														
GAT	GOODYEAR ATOMIC CORP., PORTSMOUTH														
GDA	GENERAL DYNAMICS, SAN DIEGO, CA														
GWR															
HAM	AJAX MAGNETHERMIC CORPORATION														
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA														
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA														
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD			4											
HUA	HANFORD ENGINEERING DEVELOPMENT LAB			32											
HUE	WESTINGHOUSE HANFORD,DEFENSE REACTOR DIV								1,778	(2)					
HVA	ATLANTIC RICHFIELD HANFORD COMPANY														
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND	10		328	4,706	1,047	9,542	1,787							
HYA	BATTELLE MEMORIAL INST,PACIFIC NW LB														
HZA	GENERAL ELECTRIC CO, RICHLAND														
IGC															
ISC	IOWA STATE COLLEGE														
JXI	LOCKHEED MARTIN ITC, ICPP			17	(2)										
KZA	GENERAL ELECTRIC COMPANY, KNOLLS LAB														
LAB	U OF CAL, LAWRENCE LAB, LIVERMORE CA														
LAE	ROCKETDYNE,ROCKWLL INTL,SANTA SUSANA														
LAL	ROCKETDYNE, ROCKWELL INTL, CANOGA														
LAQ	ALBANY METALLURGY RESEARCH CENTER, OR														
LAW	GA TECHNOLOGIES, INC SAN DIEGO														
LAZ	GE,VALLECITOS NUCLEAR CENTER														
LLB	SANDIA LABORATORIES, LIVERMORE														
LMT															
LST															
LZA	U CALIFORNIA,LAWRENCE BERKELEY LAB														
LZB	U CAL, LAWRENCE LIVERMORE LABORATORY														
MAB	USEAC, CANEL PROJECT OFFICE														

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1982	FY1983	FY1984	FY1985	FY1986 FVA	FY1986 FVC	FY1987	FY1988	FY1989	FY1990	FY1991	FY1992	FY1993	FY1994
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
MAP	AEORPROJECTS INC., WEST CHESTER PA														
MAY	U. S. NATIONAL BUREAU OF STANDARDS														
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.														
MBB	REACTIVE METALS INC./BRIDGEPORT BRASS														
MBN	WHITTAKER CORP, NUC METALS DIVISION														
MBP	UNIVERSITY OF ROCHESTER														
MBS	NATIONAL BUREAU OF STANDARDS														
MBU	UNITED NUCLEAR RESEARCH & ENGINEERING CENTER														
MCC	THE CARBORUNDUM COMPANY, R&D DIVISION														
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO														
MIO	NUCLEAR METALS INC, WEST CONCORD MA														
MMC	MARTIN MARIETTA CORP, NUCLEAR DIVISION														
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV														
MPW	PRATT & WHITNEY AIRCRAFT DIV, MIDDLETOWN CT														
MSA	USAEC NY OPERATIONS, NEW YORK NY														
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ														
NBS															
NCF	NATIONAL CARBON CO, FOSTORIA OH														
NLA	NATIONAL LEAD, ALBANY NY														
NME	NUCLEAR MATERIAL AND EQUIPMENT CORP., APOLLO PA														
OCB															
ORL	OAK RIDGE NATIONAL LABORATORY														
PAB	DUQUESNE LIGHT COMPANY, SHIPPINGPORT PA														
PZA	BETTIS ATOMIC POWER LABORATORY		222												
QAA	USDOE, OFFICE OF SAFEGUARDS & SECURITY														
QAC	USDOE, DIVISION OF RAW MATERIALS														
RAD	UNIVERSITY OF CALIFORNIA														
RMA															
RNE	NETHERLANDS														
SAF	MASON & HANGER, FORT CAMPBELL KY														
SBN	MASON & HANGER, SAN ANTONIO TX														
SBX	MONSANTO, MIAMISBURG, OH														
SDA	DUPONT SAVANNAH RIVER														
SFE	SANDIA CORPORATION														
SFF	SILAS MASON COMPANY														
SFJ	DOW CHEMICAL COMPANY, ROCKY FLATS PLANT														
SGE	GENERAL ELECTRIC COMPANY, KNOLLS LAB														
SOM	UNITED NUCLEAR COMPANY														
SRS	SYLCOR DIVISION, HICKSVILLE, NY														
SYL	SYLVANIA ELECTRIC PRODUCTS, INC., BAYSIDE NY														
UNC	UNITED NUCLEAR CORPORATION, CHEMICAL DIV														
VAC	NATIONAL RESEARCH, CAMBRIDGE MA														

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1982	FY1983	FY1984	FY1985	FY1986 FVA	FY1986 FVC	FY1987	FY1988	FY1989	FY1990	FY1991	FY1992	FY1993	FY1994
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
VPI															
VVB	NLO, INC OHIO BURIAL GROUND					1									
WCE															
WCP	COMBUSTION ENGINEERING INC., WINDSOR CT														
WEB	WESTINGHOUSE BETTIS, PITTSBURGH PA														
YAM	COAST GUARD ACADEMY, NEW LONDON CT														
YEF	SMITHSONIAN INSTITUTE			1,814											
YGU	THE CITIDAL CHARLESTON, SC				4										
YHP	MURRAY STATE UNIVERSITY, PHYSICS														
YJL	COLGATE UNIVERSITY, PHYSICS			2,269											
YPF	AUBURN UNIVERSITY, SAFETY & EH								2,500						
YST	AEROJET ORDNANCE TENNESSEE														
ZCM	BUCKNELL UNIVERSITY, PHYSICS														
ZCY	CARNEGIE-MELLON U, NUCLEAR RESEARCH														
ZDB	CASE WESTERN RESERVE U, NRC														
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA				2,590		2,494								
ZDS	CLARK COLLEGE						2,493	(2,493)							
ZDT	CLARKSON UNIVERSITY							2,493							
ZFZ	FAIRLEIGH DICKINSON U, TEANECK-HACK														
ZIJ	ALARON CORPORATION														
ZKB	IOWA STATE U, NUCLEAR ENGINEERING														
ZKL	KANSAS STATE U, AG & APPLIED SCIENCE														
ZLR	LOUISIANA TECH U, NUCLEAR CENTER	2,499													
ZLU	U OF LOUISVILLE, SPEED SCIENTIFIC														
ZMH	MANHATTAN COLLEGE, MECHANICAL ENG.														
ZMK	MARQUETTE UNIVERSITY, BIOLOGY							2,493							
ZMR	UNIVERSITY OF MARYLAND, ENV. SAFETY														
ZND	UNIVERSITY OF MINNISOTA, U HEALTH SERVICE					2,492									
ZNG	UNIVERSITY OF MISSISSIPPI, ESO														
ZPG	UNIVERSITY OF NEVADA, DESERT RESEARCH INST								2,500						
ZQC	NORTHEASTERN UNIVERSITY					2,493									
ZQG	NORTHWESTERN U, RESEARCH SAFETY							2,506							
ZQM	NUCLEAR FUEL SERVICES, INC														
ZQX	OHIO UNIVERSITY, ARTS & SCIENCES														
ZSF	UNIVERSITY OF PITTSBURGH, RSO														
ZTE	UNIVERSITY OF RHODE ISLAND, KINGSTON		2,495												
ZVF	SYRACUSE UNIVERSITY														
ZVX	TEXAS TECH UNIVERSITY, EH&S						2,500								
ZWB	UNIVERSITY OF TOLEDO		1,574												
ZWY	UTAH STATE UNIVERSITY, EH&S									2,500					
ZXA	VANDERBILT U, MECHANICAL ENGINEERING									2,498					
ZXF	VILLANOVA UNIVERSITY, PHYSICS			2,488											

APPENDIX A.1 **FEMP NORMAL RECEIPTS**

FEMP HISTORICAL DATA
RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1982	FY1983	FY1984	FY1985	FY1986 FVA	FY1986 FVC	FY1987	FY1988	FY1989	FY1990	FY1991	FY1992	FY1993	FY1994
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
ZXH	VIRGINIA POLYTECHNIC INSTITUTE				1,191										
ZXZ	WASHINGTON UNIVERSITY, ST. LOUIS MO														
ZYG	WV INSTITUTE OF TECHNOLOGY	2,492													
ZYH	WEST VIRGINIA UNIVERSITY														
ZZM	YALE UNIVERSITY														
RBRU	IPR-R1														
RDDW	NATU METAL, EL DORADO NUCLEAR LTD				1										
FVCH	FEMP DISCARD TO HOLDING AREA												988	1,056	6,941
GVCH	FEMP DISCARD TO HOLDING AREA														
MISC	NORMAL TO ENRICHED			18	7,177	102	914		3,059		5	1,015			
MISC	NORMAL TO DEPLETED														
MISC	MISCELLANEOUS														
TOTAL		7,315	4,291	403,173	452,950	6,371	48,037	23,250	9,837	4,660	6,940	1,015	988	1,056	6,941

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1995FVC	FY1995GVC	FY1996	FY1997	FY1998	FY1999	TOTAL
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
AGE	GENERAL ELECTRIC COMPANY, ATOMIC POWER EQUIP							91
AIC	ATOMICS INTERNATIONAL, CANOGA PARK CA							3,074
ALA	SANDIA NATIONAL LABS, ALBUQUERQUE							39
AMC								27,067
ANL	ARGONNE NATIONAL LAB							11,597
ARM	IIT RESEARCH INST, CHICAGO IL							164
ASA	DOW CHEMICAL USA, ROCKY FLATS DIV.							2,581
ATA	MASON & HANGER-SILAS MASON BURLINGTN							11,582
AUA	LOS ALAMOS NATIONAL LABORATORY							9,026
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY							135
AVB	EG&G MOUND APPLIED TECHNOLOGIES, INC							6,935
AWA	MASON & HANGER, CO PANTEX PLANT							3,658
AXA	GENERAL ELECTRIC CO, PINELLAS							5
AYA	SILAS MASON CO, INC, MEDINA							1,809
AZA	MASON & HANGER, FORT CAMPBELL KY							6,316
BBA	RMI TITANIUM COMPANY							4,102,371
BMI	BATTELLE MEMORIAL INST.							3,844
BWD	BECHTEL JACOBS COMPANY LLC							120,946
BXA	LMUS, USEC, PORTSMOUTH GDP							539,066
BZA	BROOKHAVEN RESEARCH LABORATORY							1,242
CAB	USAEC, SF MATERIALS ACCOUNTABILITY BRANCH, ORE							4
CAE	ATOMICS INT, DIV OF NA AVIATION, INC							437
CAF	BATTELLE, COLUMBUS DIVISION							1,010
CAK	AMES LABORATORY, IOWA STATE UNIV							1,992
CBB	BRUSH BERYLLIUM COMPANY							45
CBH	NEW BRUNSWICK LABORATORY, NEW JERSEY							394
CBJ	USDOE, NEW BRUNSWICK LAB, ILLINOIS							30
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)							7,003
CCP	MASSACHUSETTS INSTITUTE OF TECHNOLOGY							6,385
CKY	UNION CARBIDE NUCLEAR CO. PADUCAH							180
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)							6
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS							18,495
CZC	ARGONNE NATIONAL LABORATORY, IDAHO							1,798
DAA	SAVANNAH RIVER OPERATIONS OFFICE							12,927
DCC	NUCLEAR FUEL SERVICES, ERWIN TN							569
DIA	DIVISION OF INTERNATIONAL AFFAIRS							67
DYA	SYLCOR DIVISION, HICKSVILLE NY							53,823
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY							552,548
FAA	DOE OAK RIDGE OPERATIONS OFFICE							3,614,508
FAL	UNIVERSITY OF VIRGINIA							5
FAP	BABCOCK & WILCOX, NUCLEAR MATERIAL EXCEPT PU							54

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1995FVC	FY1995GVC	FY1996	FY1997	FY1998	FY1999	TOTAL
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
FAQ	N.L.INDUSTRIES,INC.NUC DIV,ALBANY,NY							558
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT							1,202
FBE	NEW BRUNSWICK LABORATORY, USAEC							1,027
FBZ	GOLF NUCLEAR FUELS, COMMERCIAL PRODUCT							334
FTA/BBA	RMI TITANIUM COMPANY							864,012
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING							25,404,987
FYA	UNION CARBIDE, PGDP, PADUCAH, KY							129,911
FYC	BECHTEL JACOBS CO. ,LLC,US							116,486
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN							1,650
FZB	UNION CARBIDE CORP, Y-12 PLANT							15,896
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN							9,657
FZF	LOCKHEED MARTIN ENERGY SYSTEMS, Y-12							2,506
GAA	GRAND JUNCTION OPERATIONS OFFICE							16,559,068
GAT	GOODYEAR ATOMIC CORP., PORTSMOUTH							2,319
GDA	GENERAL DYNAMICS, SAN DIEGO, CA							20
GWR								1,967
HAM	AJAX MAGNETHERMIC CORPORATION							1,076
HAA&HGE	GENERAL ELECTRIC CO, RICHLAND WA							598,822
RLA&HGE	GENERAL ELECTRIC CO, RICHLAND WA							21,747
HRA	ROCKWELL HANFORD OPERATIONS, HANFORD							4
HUA	HANFORD ENGINEERING DEVELOPMENT LAB							99
HUE	WESTINGHOUSE HANFORD,DEFENSE REACTOR DIV							1,776
HVA	ATLANTIC RICHFELD HANFORD COMPANY							235
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND							1,795,889
HYA	BATTELLE MEMORIAL INST,PACIFIC NW LB							22,486
HZA	GENERAL ELECTRIC CO, RICHLAND							215,409
IGC								3,031
ISC	IOWA STATE COLLEGE							108
JXI	LOCKHEED MARTIN ITC, ICPP							15
KZA	GENERAL ELECTRIC COMPANY, KNOLLS LAB							327
LAB	U OF CAL, LAWRENCE LAB, LIVERMORE CA							22
LAE	ROCKETDYNE,ROCKWLL INTL,SANTA SUSANA							3,299
LAL	ROCKETDYNE, ROCKWELL INTL, CANOGA							14
LAQ	ALBANY METALLURGY RESEARCH CENTER, OR							5
LAW	GA TECHNOLOGIES, INC SAN DIEGO							471
LAZ	GE,VALLECITOS NUCLEAR CENTER							3,393
LIB	SANDIA LABORATORIES, LIVERMORE							553
LMT								15,559
IST								(284)
LZA	U CALIFORNIA,LAWRENCE BERKELEY LAB							193
LZB	U CAL, LAWRENCE LIVERMORE LABORATORY							345
MAB	USEAC, CANEL PROJECT OFFICE							21

APPENDIX A.1
FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA
RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1995FVC	FY1995GVC	FY1996	FY1997	FY1998	FY1999	TOTAL
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
MAP	AEORPROJECTS INC., WEST CHESTER PA							10
MAY	U. S. NATIONAL BUREAU OF STANDARDS							478
MBA	BRIDGEPORT BRASS CO., ALUMINUM DIV.							275,358
MBB	REACTIVE METALS INC./BRIDGEPORT BRASS							31,330
MBN	WHITTAKER CORP, NUC METALS DIVISION							9,875
MBP	UNIVERSITY OF ROCHESTER							59
MBS	NATIONAL BUREAU OF STANDARDS							22
MBU	UNITED NUCLEAR RESEARCH & ENGINEERING CENTER							1,261
MCC	THE CARBORUNDUM COMPANY, R&D DIVISION							9
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO							19,142,403
MIO	NUCLEAR METALS INC, WEST CONCORD MA							24,257
MMC	MARTIN MARIETTA CORP, NUCLEAR DIVISION							1,001
MNL	NATIONAL LEAD COMPANY, NUCLEAR METALS DIV							17,607
MPW	PRATT & WHITNEY AIRCRAFT DIV, MIDDLETOWN CT							34
MSA	USAEC NY OPERATIONS, NEW YORK NY							90
NBL	NEW BRUNSWICK LABATORY, NEW BRUNSWICK NJ							538
NBS								68
NCF	NATIONAL CARBON CO, FOSTORIA OH							47
NLA	NATIONAL LEAD, ALBANY NY							44
NME	NUCLEAR MATERIAL AND EQUIPMENT CORP., APOLLO PA							6,942
OCB								5,984
ORL	OAK RIDGE NATIONAL LABORATORY							1
PAB	DUQUESNE LIGHT COMPANY, SHIPPINGPORT PA							2,259
PZA	BETTIS ATOMIC POWER LABORATORY							89,525
QAA	USDOE, OFFICE OF SAFEGUARDS & SECURITY							5
QAC	USDOE, DIVISION OF RAW MATERIALS							2,097,468
RAD	UNIVERSITY OF CALIFORNIA							2,692
RMA								9,083,592
RNE	NETHERLANDS							1,995
SAF	MASON & HANGER, FORT CAMPBELL KY							50,601
SBN	MASON & HANGER, SAN ANTONIO TX							37,033
SBX	MONSANTO, MIAMISBURG, OH							10
SDA	DUPONT SAVANNAH RIVER							3,359,587
SFE	SANDIA CORPORATION							41
SFF	SILAS MASON COMPANY							372
SFJ	DOW CHEMICAL COMPANY, ROCKY FLATS PLANT							1,419
SGE	GENERAL ELECTRIC COMPANY, KNOLLS LAB							1,247
SOM	UNITED NUCLEAR COMPANY							9
SRS	SYLOR DIVISION, HICKSVILLE, NY							946,269
SYL	SYLVANIA ELECTRIC PRODUCTS, INC. BAYSIDE NY							551
UNC	UNITED NUCLEAR CORPORATION, CHEMICAL DIV							94
VAC	NATIONAL RESEARCH, CAMBRIDGE MA							54

APPENDIX A.1 FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1995FVC	FY1995GVC	FY1996	FY1997	FY1998	FY1999	TOTAL
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
VPI								50
VVB	NLO, INC OHIO BURIAL GROUND							1
WCE								1
WCP	COMBUSTION ENGINEERING INC., WINDSOR CT							23
WEB	WESTINGHOUSE BETTIS, PITTSBURGH PA							30,754
YAM	COAST GUARD ACADEMY, NEW LONDON CT							2,495
YEF	SMITHSONIAN INSTITUTE							1,814
YGU	THE CITIDAL, CHARLESTON, SC							4
YHP	MURRAY STATE UNIVERSITY, PHYSICS							3,294
YIL	COLGATE UNIVERSITY, PHYSICS							2,269
YPF	AUBURN UNIVERSITY, SAFETY & EH							2,500
YST	AEROJET ORDNANCE TENNESSEE			14				14
ZCM	BUCKNELL UNIVERSITY, PHYSICS							2,494
ZCY	CARNEGIE-MELLON U, NUCLEAR RESEARCH							2,447
ZDB	CASE WESTERN RESERVE U, NRC							2,480
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA							5,084
ZDS	CLARK COLLEGE							-
ZDT	CLARKSON UNIVERSITY							2,493
ZFZ	FAIRLEIGH DICKINSON U, TEANECK-HACK							2,479
ZIJ	ALARON CORPORATION		8	72				80
ZKB	IOWA STATE U, NUCLEAR ENGINEERING							3,090
ZKL	KANSAS STATE U, AG & APPLIED SCIENCE							2,498
ZLR	LOUISIANA TECH U, NUCLEAR CENTER							2,499
ZLU	U OF LOUISVILLE, SPEED SCIENTIFIC							2,195
ZMH	MANHATTAN COLLEGE, MECHANICAL ENG.							11
ZMK	MARQUETTE UNIVERSITY, BIOLOGY							2,493
ZMR	UNIVERSITY OF MARYLAND, ENV. SAFETY							2,500
ZND	UNIVERSITY OF MINNISOTA, U HEALTH SERVICE							2,492
ZNG	UNIVERSITY OF MISSISSIPPI, ESO							2,494
ZPG	UNIVERSITY OF NEVADA, DESERT RESEARCH INST							2,500
ZQC	NORTHEASTERN UNIVERSITY							2,493
ZQG	NORTHWESTERN U, RESEARCH SAFETY							2,506
ZQM	NUCLEAR FUEL SERVICES, INC			5				5
ZQX	OHIO UNIVERSITY, ARTS & SCIENCES							2,308
ZSF	UNIVERSITY OF PITTSBURGH, RSO							2,494
ZTE	UNIVERSITY OF RHODE ISLAND, KINGSTON							2,495
ZVF	SYRACUSE UNIVERSITY							2,500
ZVX	TEXAS TECH UNIVERSITY, EH&S							2,500
ZWB	UNIVERSITY OF TOLEDO							1,574
ZWY	UTAH STATE UNIVERSITY, EH&S							2,500
ZXA	VANDERBILT U, MECHANICAL ENGINEERING							2,498
ZXF	VILLANOVA UNIVERSITY, PHYSICS							2,488

APPENDIX A.1
FEMP NORMAL RECEIPTS

FEMP HISTORICAL DATA
RECEIPTS OF NORMAL URANIUM

	EXTERNAL RECEIPTS NORMAL URANIUM	FY1995FVC	FY1995GVC	FY1996	FY1997	FY1998	FY1999	TOTAL
RIS	SITE	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS	U KGS
ZXH	VIRGINIA POLYTECHNIC INSTITUTE							1,191
ZXZ	WASHINGTON UNIVERSITY, ST. LOUIS MO							2,495
ZYG	WV INSTITUTE OF TECHNOLOGY							2,492
ZYH	WEST VIRGINIA UNIVERSITY							1,813
ZZM	YALE UNIVERSITY							2,500
RBRU	IPR-R1							4,893
RDDW	NATU METAL, EL DORADO NUCLEAR LTD							1
FVCH	FEMP DISCARD TO HOLDING AREA	4						8,989
GVCH	FEMP DISCARD TO HOLDING AREA		4,596	12,388	9			16,993
MISC	NORMAL TO ENRICHED							1,607,175
MISC	NORMAL TO DEPLETED							354,326
MISC	MISCELLANEOUS							100,931,419
TOTAL		4	4,604	12,479	9	-	-	193,156,480

APPENDIX A.1
FEMP DEPLETED RECEIPTS SUMMARIZED

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM

EXTERNAL RECEIPTS DEPLETED URANIUM	FY1952-FY1961		FY1962-FY1969		FY1970-FY1979		FY1980-FY1989		FY1990-FY1999		TOTAL	
SITE	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
Pu PROCESSING PLANTS *	1,505	10	548,586	2,904	890,020	3,709	854,857	1,687	19	-	2,294,987	8,310
GASEOUS DIFFUSION PLANTS	-	-	2,999,491	4,296	17,494,889	35,182	32,791,806	65,033	1	-	53,286,187	104,511
WEAPONS PLANTS	-	-	1,251	3	4,665	7	1,333,979	2,747	-	-	1,339,895	2,757
U PROCESSING PLANTS	-	-	3,650,463	5,150	15,069,972	27,808	16,963,265	34,067	88	-	35,683,788	67,025
OTHER SITES	8,631,247	17,256	812,148	1,178	2,666,299	18,686	341,384	1,032	429,972	1,001	12,881,050	39,153
TOTAL	8,632,752	17,266	8,011,939	13,531	36,125,845	85,392	52,285,291	104,566	430,080	1,001	105,485,907	221,756

* INCLUDES SCRAP NOT PROCESSED

**APPENDIX A.1
FEMP DEPLETED RECEIPTS
SUMMARIZED**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

EXTERNAL RECEIPTS DEPLETED URANIUM	FY1952		FY1953		FY1954		FY1955		FY1956		FY1957		FY1958		FY1959	
SITE	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
OAK RIDGE K-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OAK RIDGE Y-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PADUCAH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
REACTIVE METALS, INCORPORATED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WEST VALLEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HANFORD	-	-	124	1	-	-	-	-	-	-	-	-	-	-	1,363	9
SAVANAH RIVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROCKY FLATS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER SITES	11,199	22	106,231	212	1,034,315	2,069	2,996,039	5,992	4,254,093	8,508	39,788	80	41,220	82	95,992	186
TOTAL	11,199	22	106,355	213	1,034,315	2,069	2,996,039	5,992	4,254,093	8,508	39,788	80	41,220	82	97,355	195

**APPENDIX A.1
FEMP DEPLETED RECEIPTS
SUMMARIZED**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

EXTERNAL RECEIPTS DEPLETED URANIUM	FY1960		FY1961		FY1962		FY1963		FY1964		FY1965		FY1966		FY1967	
	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
SITE																
OAK RIDGE K-25	-	-	-	-	272	2	-	-	-	-	-	-	-	-	-	-
OAK RIDGE Y-12	-	-	-	-	-	-	-	-	1,251	3	-	-	-	-	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	-	-	1	-	-	-	5	-
PADUCAH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	64,495	144	-	-	107,674	153	676,868	966
REACTIVE METALS, INCORPORATED	-	-	-	-	-	-	-	-	-	-	40	-	-	-	149,879	217
WEST VALLEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	1,733	5	-	-	-	-	-	-	-	-	3,169	6
HANFORD	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAVANAH RIVER	-	-	-	-	-	-	-	-	-	-	-	-	14,662	88	-	-
ROCKY FLATS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER SITES	41,359	83	11,011	22	-	-	566	1	419	1	2	-	1,455	10	9,008	19
TOTAL	41,377	83	11,011	22	2,005	7	566	1	66,165	148	49	-	123,791	251	839,129	1,208

**APPENDIX A.1
FEMP DEPLETED RECEIPTS
SUMMARIZED**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

EXTERNAL RECEIPTS DEPLETED URANIUM	FY1968 1st		FY1968 2nd		FY1969		FY1970		FY1971		FY1972		FY1973	
SITE	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
OAK RIDGE K-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OAK RIDGE Y-12	-	-	-	-	-	-	-	-	-	-	-	-	234	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	1	-	-	-	-	-	3	-	-	-	3	-	-	-
PADUCAH GASEOUS DIFFUSION PLANT	764,049	1,069	(5)	-	1,386,131	1,962	942,755	1,333	870,993	1,246	1,016,727	1,884	2,163,103	4,346
REACTIVE METALS, INCORPORATED	780,119	1,096	943,549	1,333	1,771,768	2,493	1,282,485	1,808	1,575,982	2,244	1,333,095	2,000	2,613,435	5,228
WEST VALLEY	8,155	58	25,438	180	95,482	657	13,012	90	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HANFORD	-	-	-	-	-	-	476,163	2,963	195	-	-	-	127	-
SAVANAH RIVER	13,277	17	33,197	47	358,375	1,857	43,791	66	45,193	63	16,072	22	127,557	184
ROCKY FLATS	-	-	-	-	-	-	-	-	386	3	663	-	380	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER SITES	1,620	3	797,373	1,132	1,705	12	44,941	313	29,436	188	322,195	2,250	93,576	658
TOTAL	1,567,221	2,243	1,799,552	2,692	3,613,461	6,981	2,803,150	6,573	2,522,185	3,744	2,688,755	6,156	4,998,412	10,416

APPENDIX A.1
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RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM

EXTERNAL RECEIPTS DEPLETED URANIUM	FY1974		FY1975		FY1976		FY1976A		FY1977		FY1978		FY1979	
SITE	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
OAK RIDGE K-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OAK RIDGE Y-12	1,038	2	-	-	-	-	-	-	-	-	-	-	60	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PADUCAH GASEOUS DIFFUSION PLANT	996,410	2,024	1,143,884	2,281	1,214,338	3,442	302,468	692	6,874,125	13,917	1,970,080	4,017	-	-
REACTIVE METALS, INCORPORATED	1,336,024	2,666	936,908	1,878	1,211,608	2,424	372,484	743	1,727,161	3,452	1,513,264	3,029	1,167,526	2,336
WEST VALLEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HANFORD	-	-	167	-	-	-	-	-	-	-	-	-	-	-
SAVANAH RIVER	39,536	78	8,202	18	19,547	39	2,242	4	14,330	29	15,976	32	67,910	121
ROCKY FLATS	-	-	1	-	211	-	-	-	1,192	2	-	-	500	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER SITES	164,951	1,167	7,576	47	285,562	2,028	1,470,308	10,391	234,297	1,568	2,063	6	11,394	70
TOTAL	2,537,959	5,937	2,096,738	4,224	2,731,266	7,933	2,147,502	11,830	8,851,105	18,968	3,501,383	7,084	1,247,390	2,527

**APPENDIX A.1
FEMP DEPLETED RECEIPTS
SUMMARIZED**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

EXTERNAL RECEIPTS DEPLETED URANIUM	FY1980		FY1981		FY1982		FY1983		FY1984		FY1985	
SITE	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
OAK RIDGE K-25	44	-	323	-	6	-	-	-	15	-	-	-
OAK RIDGE Y-12	-	-	2,745	18	365	1	-	-	9	-	1,032	3
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	2	-	2	-
PADUCAH GASEOUS DIFFUSION PLANT	19,007	125	1,501,465	3,008	3,195,150	6,374	3,615,837	7,120	5,830,701	11,543	4,067,518	8,014
REACTIVE METALS, INCORPORATED	1,470,668	2,950	1,645,336	3,306	2,734,534	5,488	2,762,895	5,545	2,809,764	5,636	2,356,404	4,723
WEST VALLEY	-	-	-	-	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-	-	-	-	-
HANFORD	-	-	-	-	-	-	-	-	-	-	-	-
SAVANAH RIVER	9,261	19	15,243	32	22,224	46	167,371	334	158,587	310	86,992	169
ROCKY FLATS	-	-	-	-	-	-	-	-	-	-	32	-
IDAHO	-	-	-	-	-	-	-	-	-	-	318	-
OTHER SITES	209,835	418	8,754	25	13,450	31	11,909	52	31,311	60	18,622	139
TOTAL	1,708,815	3,512	3,173,866	6,389	5,965,729	11,940	6,558,012	13,051	8,830,389	17,549	6,530,920	13,048

APPENDIX A.1
FEMP DEPLETED RECEIPTS
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RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM

EXTERNAL RECEIPTS DEPLETED URANIUM	FY1986 FVA		FY1986 FVC		FY1987		FY1988		FY1989		FY1990		FY1991		FY1992	
	U	KGS	U	KGS	U	KGS	U	KGS	U	KGS	U	KGS	U	KGS	U	KGS
OAK RIDGE K-25	-	-	-	-	1,412,470	2,938	119	-	44	-	-	-	-	-	-	-
OAK RIDGE Y-12	-	-	2,305	-	3,787	8	-	-	8,590	18	-	-	-	-	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	1	-	-	-	68	-	-	-	-	-	-	-	-	-
PADUCAH GASEOUS DIFFUSION PLANT	1,154,534	2,302	4,504,100	-	5,682,812	11,444	1,807,991	3,262	(403)	-	-	-	-	-	-	-
REACTIVE METALS, INCORPORATED	632,165	1,273	2,235,509	-	309,809	631	5,466	12	2,715	7	88	-	-	-	-	-
WEST VALLEY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HANFORD	-	-	-	-	5,084	10	-	-	-	-	-	-	-	-	-	-
SAVANAH RIVER	-	-	119,883	-	270,212	531	-	-	-	-	-	-	-	-	-	-
ROCKY FLATS	35,543	94	401,649	-	567,660	1,115	309,944	623	-	-	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER SITES	2,232	17	6,658	-	11,248	69	8,649	61	18,716	105	18,018	36	31,393	63	64	-
TOTAL	1,824,474	3,686	7,268,105	14,557	8,263,082	16,746	2,132,237	3,958	29,662	130	18,106	36	31,393	63	64	-

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FEMP DEPLETED RECEIPTS
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**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

EXTERNAL RECEIPTS DEPLETED URANIUM												SITE	
FY1993		FY1994		FY1995 FVC		FY1995 GVC		FY1996		FY1997		FY1998	
U	U-235	U	U-235	U	U-235	U	U-235	U	U-235	U	U-235	U	U-235
1	-	-	-	-	-	-	-	-	-	-	-	-	-
OAK RIDGE K-25													
OAK RIDGE Y-12	-	-	-	-	-	-	-	-	-	-	-	-	-
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	-	-	-	-	-
PADUCAH GASEOUS DIFFUSION PLANT	-	-	-	-	-	-	-	-	-	-	-	-	-
REACTIVE METALS, INCORPORATED	-	-	-	-	-	-	-	-	-	-	-	-	-
WEST VALLEY	-	-	-	-	-	-	-	-	-	-	-	-	-
WELDON SPRING	-	-	-	-	-	-	-	-	-	-	-	-	-
HANFORD	-	-	-	-	-	-	-	-	-	-	-	-	-
SAVANNAH RIVER	-	-	-	-	-	-	-	-	-	-	-	-	-
ROCKY FLATS	-	-	-	-	-	-	-	-	-	-	-	-	-
IDAHO	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHER SITES	5,287	11	320,877	776	46,327	98	1,643	3	3,931	8	1,946	5	320
TOTAL		5,288	11	320,877	776	46,327	1,643	3	3,950	8	1,946	5	320

**APPENDIX A.1
FEMP DEPLETED RECEIPTS
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**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

EXTERNAL RECEIPTS DEPLETED URANIUM	FY1999		TOTAL	
	U KGS	U-235 KGS	U KGS	U-235 KGS
SITE				
OAK RIDGE K-25	-	-	1,413,294	2,940
OAK RIDGE Y-12	-	-	21,416	58
PORTSMOUTH GASEOUS DIFFUSION PLANT	-	-	86	-
PADUCAH GASEOUS DIFFUSION PLANT	-	-	51,872,807	101,571
REACTIVE METALS, INCORPORATED	-	-	35,678,686	67,014
WEST VALLEY	-	-	142,106	985
WELDON SPRING	-	-	5,102	11
HANFORD	-	-	483,241	2,983
SAVANAH RIVER	-	-	1,669,640	4,342
ROCKY FLATS	-	-	1,318,161	2,699
IDAHO	-	-	318	-
OTHER SITES	166	-	12,881,050	39,153
TOTAL	166	-	105,485,907	221,756

**APPENDIX A.1
FEMP DEPLETED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

RIS	EXTERNAL RECEIPTS DEPLETED URANIUM	SITE	FY1952		FY1953		FY1954		FY1955		FY1956		FY1957		FY1958	
			U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
ALA	SANDIA NATIONAL LABS, ALBUQUERQUE	OTHER														
ALD	SANDIA NATIONAL LABS, LIVERMORD	OTHER														
AMC		OTHER														
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS	RF														
ASA	DOW CHEMICAL USA, ROCKY FLATS DIV.	RF														
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY	OTHER														
AYB	EG&G MOUND APPLIED TECHNOLOGIES, INC	OTHER														
AWA	MASON & HANGER, CO. PANTEX PLANT	OTHER														
BMI	BATTELLE MEMORIAL INST.	OTHER														
BWD	BECHTEL JACOBS COMPANY LLC	K25														
BXA	LMUS, USEC, PORTSMOUTH GDP	PORTS														
BYA	UNION CARBIDE, PGDP, UESA, PADUCAH, KY	PADU														
BYC	USEC, PADUCAH GDP	PADU														
CAF	BATTELLE, COLUMBUS DIVISION	OTHER														
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)	K25														
CKY	UNION CARBIDE NUCLEAR CO.	PADU														
CWA	FERMI NATIONAL ACCELERATOR LAB., ILL	OTHER														
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)	Y12														
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS	OTHER														
CZC	ARGONNE NATIONAL LABORATORY, IDAHO	OTHER														
DAA	DOE SAVANNAH RIVER OFFICE	WV														
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY	SRP														
FAA	DOE OAK RIDGE OPERATIONS OFFICE	OTHER														
FAQ	N. L. INDUSTRIES, INC, NUC, DIV, ALBANY NY	OTHER														
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT	OTHER														
FBE	NEW BRUNSWICK LABORATORY, USAEC	OTHER														
FTA	RMI TITANIUM COMPANY	RMI														
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING	WS														
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH	PORTS														
FYA	UNION CARBIDE, PGDP, PADUCAH, KY	PADU														
FYC	BECHTEL JACOBS CO., LLC, US	PADU														
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN	K25														
FZB	UNION CARBIDE CORP, Y-12 PLANT	Y12														
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN	OTHER														
FZE	BECHTEL JACOBS COMPANY LLC	K25														
FZF	LOCKHEED MARTIN ENERGY SYSTEMS, Y-12	Y12														
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL	OTHER														
HUA	ROCKWELL HANFORD OPERATIONS, HANFORD	HAN			124	1										
HVA	ATLANTIC RICHFIELD HANFORD COMPANY	HAN														
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND	HAN														
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB	OTHER														
JXI	WESTINGHOUSE IDAHO NUCLEAR CO, INC	ID														
LAB	ROCKETDYNE, ROCKWELL INT, SANTA	OTHER														
MAA	NEW YORK OPERATIONS OFFICE	OTHER														
MAB	USAEC, CANEL PROJECT OFFICE	OTHER														

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**RECYCLED URANIUM PROJECT
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RIS	EXTERNAL RECEIPTS DEPLETED URANIUM		FY1952		FY1953		FY1954		FY1955		FY1956		FY1957		FY1958	
			U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
MAW	COMBUSTION ENGINEERING, NUCLEAR	OTHER														
MBN	WHITTAKER CORP, NUC METALS	OTHER														
MDR	BABCOCK & WILCOX, R/D, NUC DEV CENTER	OTHER														
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO	WS														
MSA	USAE NY OPERATIONS, NEW YORK NY	OTHER														
ORL	OAK RIDGE NATIONAL LABORATORY	OTHER														
PZA	BETTIS ATOMIC POWER LABORATORY	OTHER														
QFA		OTHER														
RCA	CANADA	OTHER														
SFC	LOS ALAMOS SCIENTIFIC LABORATORY	OTHER														
VVB	NLO INC, OHIO BURIAL GROUND	OTHER														
VVC	FEMP, WASTE MANAGEMENT ACCOUNT	OTHER														
XIA	OLIN CORP., WINCHESTER DIV	OTHER														
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY NY	WV														
YLE	ALLIANT TECHSYSTEMS, INC.	OTHER														
YQM	GE, AIRCRAFT ENGINES	OTHER														
YRA	AEROJET ORDINANCE TENNESSEE	OTHER														
YST	U. S. ARMY, CORPUS CHRISTI DEPOT	OTHER														
YVX	NUCLEAR METALS, INC.	OTHER														
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA	OTHER														
ZDP	U OF CINCINNATI MEDICAL CENTER, RSO	OTHER														
ZNX	MICHIGAN TECHNOLOGICAL UNIVERSITY	OTHER														
ZOV	MANUFACTURING SCIENCE CORPORATION	OTHER														
ZQM	NUCLEAR FUEL SERVICES, INC.	WV														
ZQQ	NUCLEAR METALS INC (SEE YVX)	OTHER														
ZSK	PRINCETON UNIVERSITY, OS&H	OTHER														
ZST	CHAMBERLAIN MANUFACTURING CORP.	OTHER														
FVCH	FEMP DISCARD TO HOLDING AREA	OTHER														
GVCH	FEMP DISCARD TO HOLDING AREA	OTHER														
MISC	NORMAL TO DEPLETED	OTHER														
MISC	ENRICHED TO DEPLETED	OTHER														
MISC	MISCELLANEOUS	OTHER	11,199	22	106,231	212	1,034,315	2,069	2,996,039	5,992	4,254,093	8,508	39,788	80	41,220	82
TOTAL	TOTAL		11,199	22	106,355	213	1,034,315	2,069	2,996,039	5,992	4,254,093	8,508	39,788	80	41,220	82

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RECEIPTS OF DEPLETED URANIUM

RIS	EXTERNAL RECEIPTS DEPLETED URANIUM	FY1959		FY1960		FY1961		FY1962		FY1963		FY1964		FY1965		FY1966	
		U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
ALA	SANDIA NATIONAL LABS, ALBUQUERQUE																
ALD	SANDIA NATIONAL LABS, LIVERMORD																
AMC										537	1						
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS																
ASA	DOW CHEMICAL USA, ROCKY FLATS DIV.																
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY															2	-
AVB	EG&G MOUND APPLIED TECHNOLOGIES, INC																
AWA	MASON & HANGER, CO. PANTEX PLANT																
BMI	BATTELLE MEMORIAL INST.											113	-				
BWD	BECHTEL JACOBS COMPANY LLC																
BXA	LMUS, USEC, PORTSMOUTH GDP																
BYA	UNION CARBIDE, PGDP, UESA, PADUCAH, KY																
BYC	USEC, PADUCAH GDP																
CAF	BATTELLE, COLUMBUS DIVISION																
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)							272	2								
CKY	UNION CARBIDE NUCLEAR CO.											64,495	144				
CWA	FERMI NATIONAL ACCELERATOR LAB. ILL																
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)											1,251	3				
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS																
CZC	ARGONNE NATIONAL LABORATORY, IDAHO																
DAA	DOE SAVANNAH RIVER OFFICE																
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY															14,662	88
FAA	DOE OAK RIDGE OPERATIONS OFFICE													1	-		
FAQ	N. L. INDUSTRIES, INC., NUC, DIV., ALBANY NY																
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT													1	-		
FBE	NEW BRUNSWICK LABORATORY, USAEC																
FTA	RMI TITANIUM COMPANY													46	-		
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING																
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH													1	-		
FYA	UNION CARBIDE, PGDP, PADUCAH, KY															107,674	153
FYC	BECHTEL JACOBS CO., LLC, US																
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN																
FZB	UNION CARBIDE CORP. Y-12 PLANT																
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN																
FZE	BECHTEL JACOBS COMPANY LLC																
FZF	LOCKHEED MARTIN ENERGY SYSTEMS, Y-12																
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL																
HUA	ROCKWELL HANFORD OPERATIONS, HANFORD	1,363	9	18	-												
HVA	ATLANTIC RICHFIELD HANFORD COMPANY																
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND																
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB																
JXI	WESTINGHOUSE IDAHO NUCLEAR CO, INC																
LAE	ROCKETDYNE, ROCKWELL INT, SANTA																
MAA	NEW YORK OPERATIONS OFFICE															43	
MAB	USAEC, CANEL PROJECT OFFICE															50	-

**APPENDIX A.1
FEMP DEPLETED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

RIS	EXTERNAL RECEIPTS DEPLETED URANIUM SITE	FY1959		FY1960		FY1961		FY1962		FY1963		FY1964		FY1965		FY1966	
		U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
MAW	COMBUSTION ENGINEERING, NUCLEAR																
MBN	WHITTAKER CORP, NUC METALS																
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER																
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO							1,733	5								
MSA	USAEC NY OPERATIONS, NEW YORK NY											3	-				
ORL	OAK RIDGE NATIONAL LABORATORY									29	-						
PZA	BETTIS ATOMIC POWER LABORATORY																
QFA																	
RCA	CANADA																
SFC	LOS ALAMOS SCIENTIFIC LABORATORY											1	-				
VVB	NLO INC, OHIO BURIAL GROUND																
VVC	FEMP, WASTE MANAGEMENT ACCOUNT																
XIA	OLIN CORP., WINCHESTER DIV																
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY NY																
YLE	ALLIANT TECHSYSTEMS, INC.																
YQM	GE, AIRCRAFT ENGINES																
YRA	AEROJET ORDINANCE TENNESSEE																
YST	U. S. ARMY, CORPUS CHRISTI DEPOT																
YVX	NUCLEAR METALS, INC.																
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA																
ZDP	U OF CINCINNATI MEDICAL CENTER, RSO																
ZNX	MICHIGAN TECHNOLOGICAL UNIVERSITY																
ZOV	MANUFACTURING SCIENCE CORPORATION																
ZQM	NUCLEAR FUEL SERVICES, INC.																
ZQQ	NUCLEAR METALS INC (SEE YVX)																
ZSK	PRINCETON UNIVERSITY, OS&H																
ZST	CHAMBERLAIN MANUFACTURING CORP.																
EVCH	FEMP DISCARD TO HOLDING AREA																
GVCH	FEMP DISCARD TO HOLDING AREA																
MISC	NORMAL TO DEPLETED											302	1			1,360	10
MISC	ENRICHED TO DEPLETED																
MISC	MISCELLANEOUS	95,992	186	41,359	83	11,011	22										
TOTAL	TOTAL	97,355	195	41,377	83	11,011	22	2,005	7	566	1	66,165	148	49	-	123,791	251

**APPENDIX A.1
FEMP DEPLETED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

RIS	EXTERNAL RECEIPTS DEPLETED URANIUM SITE	FY1967		FY1968 1st		FY1968 2nd		FY1969		FY1970		FY1971		FY1972	
		U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
ALA	SANDIA NATIONAL LABS, ALBUQUERQUE													71	-
ALD	SANDIA NATIONAL LABS, LIVERMORD													5	-
AMC															
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS														
ASA	DOW CHEMICAL USA, ROCKY FLATS DIV.											386	3	663	-
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY														
AVB	EG&G MOUND APPLIED TECHNOLOGIES, INC														
AWA	MASON & HANGER, CO. PANTEX PLANT	31	-												
BMI	BATTELLE MEMORIAL INST.														
BWD	BECHTEL JACOBS COMPANY LLC														
BXA	LMUS, USEC, PORTSMOUTH GDP														
BYA	UNION CARBIDE, PGDP, UESA, PADUCAH, KY														
BYC	USEC, PADUCAH GDP														
CAF	BATTELLE, COLUMBUS DIVISION									23					
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)														
CKY	UNION CARBIDE NUCLEAR CO.														
CWA	FERMI NATIONAL ACCELERATOR LAB., ILL														
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)														
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS													2,713	6
CZC	ARGONNE NATIONAL LABORATORY, IDAHO											359	1		
DAA	DOE SAVANNAH RIVER OFFICE			8,155	58	25,438	180	95,482	657						
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY			13,277	17	33,197	47	358,375	1,857	43,791	66	45,193	63	16,072	22
FAA	DOE OAK RIDGE OPERATIONS OFFICE														
FAQ	N. L. INDUSTRIES, INC., NUC, DIV., ALBANY NY	283	-												
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT	36	-	107	-					4,055	9	165	-		
FBE	NEW BRUNSWICK LABORATORY, USAEC													5	-
FTA	RMI TITANIUM COMPANY	149,879	217	780,119	1,096	943,549	1,333	1,771,768	2,493	1,282,485	1,808	1,575,982	2,244	1,333,095	2,000
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING	3,369	6												
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH	5	-	1	-					3				3	-
FYA	UNION CARBIDE, PGDP, PADUCAH, KY	676,868	966	764,049	1,069	(5)	-	1,386,131	1,962	942,755	1,333	870,993	1,246	1,016,727	1,884
FYC	BECHTEL JACOBS CO., LLC, US														
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN														
FZB	UNION CARBIDE CORP, Y-12 PLANT														
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN														
FZE	BECHTEL JACOBS COMPANY LLC														
FZF	LOCKHEED MARTIN ENERGY SYSTEMS, Y-12														
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL														
HUA	ROCKWELL HANFORD OPERATIONS, HANFORD														
HVA	ATLANTIC RICHFIELD HANFORD COMPANY									467,465	2,951				
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND									8,698	12	195	-		
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB											7,585	14	4,490	8
JXI	WESTINGHOUSE IDAHO NUCLEAR CO, INC														
LAE	ROCKETDYNE, ROCKWELL INT, SANTA	1,874	4	865	2										
MAA	NEW YORK OPERATIONS OFFICE														
MAB	USAEC, CANEL PROJECT OFFICE														

**APPENDIX A.1
FEMP DEPLETED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

RIS	EXTERNAL RECEIPTS DEPLETED URANIUM	FY1967		FY1968 1st		FY1968 2nd		FY1969		FY1970		FY1971		FY1972	
		U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
MAW	COMBUSTION ENGINEERING, NUCLEAR	383	-	1	-										
MBN	WHITTAKER CORP, NUC METALS			16	-	2	-								
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER											1	-		
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO														
MSA	USAEC NY OPERATIONS, NEW YORK NY														
ORL	OAK RIDGE NATIONAL LABORATORY														
PZA	BETTIS ATOMIC POWER LABORATORY	7	-												
QFA															
RCA	CANADA														
SFC	LOS ALAMOS SCIENTIFIC LABORATORY														
VVB	NLO INC, OHIO BURIAL GROUND														
VVC	FEMP, WASTE MANAGEMENT ACCOUNT														
XIA	OLIN CORP., WINCHESTER DIV														
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY NY									13,012	90				
YLE	ALLIANT TECHSYSTEMS, INC.														
YQM	GE, AIRCRAFT ENGINES														
YRA	AEROJET ORDINANCE TENNESSEE														
YST	U. S. ARMY, CORPUS CHRISTI DEPOT														
YVX	NUCLEAR METALS, INC.														
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA														
ZDP	U OF CINCINNATI MEDICAL CENTER, RSO														
ZNX	MICHIGAN TECHNOLOGICAL UNIVERSITY														
ZOV	MANUFACTURING SCIENCE CORPORATION														
ZQM	NUCLEAR FUEL SERVICES, INC.														
ZQQ	NUCLEAR METALS INC (SEE YVX)														
ZSK	PRINCETON UNIVERSITY, OS&H														
ZST	CHAMBERLAIN MANUFACTURING CORP.														
FVCH	FEMP DISCARD TO HOLDING AREA														
GVCH	FEMP DISCARD TO HOLDING AREA														
MISC	NORMAL TO DEPLETED	6,394	15	631	1			1,705	12	40,863	304	21,326	173	314,911	2,236
MISC	ENRICHED TO DEPLETED														
MISC	MISCELLANEOUS					797,371	1,132								
TOTAL	TOTAL	839,129	1,208	1,567,221	2,243	1,799,552	2,692	3,613,461	6,981	2,803,150	6,573	2,522,185	3,744	2,688,755	6,156

**APPENDIX A.1
FEMP DEPLETED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

RIS	EXTERNAL RECEIPTS DEPLETED URANIUM SITE	FY1973		FY1974		FY1975		FY1976		FY1976A		FY1977	
		U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
ALA	SANDIA NATIONAL LABS, ALBUQUERQUE	6	-	21	-								
ALD	SANDIA NATIONAL LABS, LIVERMORD												
AMC													
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS							211	-			1,192	2
ASA	DOW CHEMICAL USA, ROCKY FLATS DIV.	180	-			1	-						
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY												
AVB	EG&G MOUND APPLIED TECHNOLOGIES, INC												
AWA	MASON & HANGER, CO. PANTEX PLANT												
BMI	BATTELLE MEMORIAL INST.												
BWD	BECHTEL JACOBS COMPANY LLC												
BXA	LMUS, USEC, PORTSMOUTH GDP												
BYA	UNION CARBIDE, PGDP, UESA, PADUCAH, KY												
BYC	USEC, PADUCAH GDP												
CAF	BATTELLE, COLUMBUS DIVISION							2	-				
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)												
CKY	UNION CARBIDE NUCLEAR CO.												
CWA	FERMI NATIONAL ACCELERATOR LAB., ILL												
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)												
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS					1,892	4					10,572	21
CZC	ARGONNE NATIONAL LABORATORY, IDAHO												
DAA	DOE SAVANNAH RIVER OFFICE												
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY	127,557	184	39,536	78	8,202	18	19,547	39	2,242	4	14,330	29
FAA	DOE OAK RIDGE OPERATIONS OFFICE												
FAQ	N. L. INDUSTRIES, INC., NUC. DIV., ALBANY NY												
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT	48	-										
FBE	NEW BRUNSWICK LABORATORY, USAEC												
FTA	RMI TITANIUM COMPANY	2,613,435	5,228	1,336,024	2,666	936,908	1,878	1,211,608	2,424	372,484	743	1,727,161	3,452
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING												
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH												
FYA	UNION CARBIDE, PGDP, PADUCAH, KY	2,163,103	4,346	996,410	2,024	1,143,884	2,281	1,214,338	3,442	302,468	692	6,874,125	13,917
FYC	BECHTEL JACOBS CO. LLC US												
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN												
FZB	UNION CARBIDE CORP, Y-12 PLANT	234	-	1,038	2								
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN												
FZE	BECHTEL JACOBS COMPANY LLC												
FZF	LOCKHEED MARTIN ENERGY SYSTEMS, Y-12												
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL												
HUA	ROCKWELL HANFORD OPERATIONS, HANFORD	127	-										
HVA	ATLANTIC RICHFIELD HANFORD COMPANY												
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND					167	-						
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB											360	1
JXI	WESTINGHOUSE IDAHO NUCLEAR CO, INC												
LAE	ROCKETDYNE, ROCKWELL INT, SANTA												
MAA	NEW YORK OPERATIONS OFFICE												
MAB	USAEC, CANEL PROJECT OFFICE												

APPENDIX A.1
FEMP DEPLETED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM

RIS	EXTERNAL RECEIPTS DEPLETED URANIUM	FY1973		FY1974		FY1975		FY1976		FY1976A		FY1977	
		U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
MAW	COMBUSTION ENGINEERING, NUCLEAR												
MBN	WHITTAKER CORP. NUC METALS												
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER												
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO												
MSA	USAEC NY OPERATIONS, NEW YORK NY												
ORL	OAK RIDGE NATIONAL LABORATORY												
PZA	BETTIS ATOMIC POWER LABORATORY			100									
QFA								9					
RCA	CANADA					3		8					
SFC	LOS ALAMOS SCIENTIFIC LABORATORY												
VVB	NLO INC. OHIO BURIAL GROUND												
VVC	FEMP, WASTE MANAGEMENT ACCOUNT												
XIA	OLIN CORP., WINCHESTER DIV												
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY NY												
YLE	ALLIANT TECHSYSTEMS, INC.												
YOM	GE, AIRCRAFT ENGINES							1				4,965	10
YRA	AEROJET ORDINANCE TENNESSEE					190		24					
YST	U. S. ARMY, CORPUS CHRISTI DEPOT												
YVX	NUCLEAR METALS, INC.												
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA												
ZDP	U OF CINCINNATI MEDICAL CENTER, RSO												
ZNX	MICHIGAN TECHNOLOGICAL UNIVERSITY												
ZOV	MANUFACTURING SCIENCE CORPORATION												
ZQM	NUCLEAR FUEL SERVICES, INC.												
ZQQ	NUCLEAR METALS INC (SEE YVX)					9		4					
ZSK	PRINCETON UNIVERSITY, OS&H												
ZST	CHAMBERLAIN MANUFACTURING CORP.												
EVCH	FEMP DISCARD TO HOLDING AREA												
GVCH	FEMP DISCARD TO HOLDING AREA												
MISC	NORMAL TO DEPLETED	90,705	641	164,830	1,167	118	1	279,310	1,984	1,461,138	10,320	217,273	1,534
MISC	ENRICHED TO DEPLETED	2,817	17			5,364	42	6,204	44	9,170	71		
MISC	MISCELLANEOUS											1,127	2
TOTAL	TOTAL	4,998,412	10,416	2,537,959	5,937	2,096,738	4,224	2,731,266	7,933	2,147,502	11,830	8,851,105	18,968

**APPENDIX A.1
FEMP DEPLETED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

EXTERNAL RECEIPTS DEPLETED URANIUM		FY1978		FY1979		FY1980		FY1981		FY1982		FY1983	
RIS	SITE	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
ALA	SANDIA NATIONAL LABS, ALBUQUERQUE	5	-	8	-								
ALD	SANDIA NATIONAL LABS, LIVERMORD												
AMC													
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS			500	-								
ASA	DOW CHEMICAL USA, ROCKY FLATS DIV.												
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY												
AVB	EG&G MOUND APPLIED TECHNOLOGIES, INC												
AWA	MASON & HANGER, CO. PANTEX PLANT												
BMI	BATTELLE MEMORIAL INST.												
BWD	BECHTEL JACOBS COMPANY LLC												
BXA	LMUS, USEC, PORTSMOUTH GDP												
BYA	UNION CARBIDE, PGDP, UESA, PADUCAH, KY											6,427	13
BYC	USEC, PADUCAH GDP												
CAF	BATTELLE, COLUMBUS DIVISION					10	-						
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)												
CKY	UNION CARBIDE NUCLEAR CO.												
CWA	FERMI NATIONAL ACCELERATOR LAB., ILL												
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)												
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS					5,679	12			12,158	27		
CZC	ARGONNE NATIONAL LABORATORY, IDAHO												
DAA	DOE SAVANNAH RIVER OFFICE												
OZA	WESTINGHOUSE SAVANNAH RIVER COMPANY	15,976	32	67,910	121	9,261	19	15,243	32	22,224	46	167,371	334
FAA	DOE OAK RIDGE OPERATIONS OFFICE												
FAQ	N. L. INDUSTRIES, INC., NUC, DIV., ALBANY NY												
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT												
FBE	NEW BRUNSWICK LABORATORY, USAEC												
FTA	RMI TITANIUM COMPANY	1,513,264	3,029	1,167,526	2,336	1,470,668	2,950	1,645,336	3,306	2,734,534	5,488	2,762,895	5,545
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING												
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH												
FYA	UNION CARBIDE, PGDP, PADUCAH, KY	1,970,080	4,017			19,007	125	1,501,465	3,008	3,195,150	6,374	3,609,410	7,107
FYC	BECHTEL JACOBS CO., LLC, US												
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN					44	-	323	-	6	-		
FZB	UNION CARBIDE CORP, Y-12 PLANT			60	-			2,745	18	365	1		
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN											3,735	8
FZE	BECHTEL JACOBS COMPANY LLC												
FZF	LOCKHEED MARTIN ENERGY SYSTEMS, Y-12												
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL												
HUA	ROCKWELL HANFORD OPERATIONS, HANFORD												
HVA	ATLANTIC RICHFIELD HANFORD COMPANY												
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND												
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB	610	1	100	-	666	1						
JXI	WESTINGHOUSE IDAHO NUCLEAR CO, INC												
LAE	ROCKETDYNE, ROCKWELL INT, SANTA												
MAA	NEW YORK OPERATIONS OFFICE												
MAB	USAEC, CANEL PROJECT OFFICE												

APPENDIX A.1
FEMP DEPLETED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM

RIS	EXTERNAL RECEIPTS DEPLETED URANIUM	FY1978		FY1979		FY1980		FY1981		FY1982		FY1983	
		U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
MAW	COMBUSTION ENGINEERING, NUCLEAR												
MBN	WHITTAKER CORP, NUC METALS												
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER												
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO												
MSA	USAEC NY OPERATIONS, NEW YORK NY												
ORL	OAK RIDGE NATIONAL LABORATORY												
PZA	BETTIS ATOMIC POWER LABORATORY												
QFA													
RCA	CANADA												
SFC	LOS ALAMOS SCIENTIFIC LABORATORY												
VVB	NLO INC, OHIO BURIAL GROUND							50	-	213	-	12	-
VVC	FEMP, WASTE MANAGEMENT ACCOUNT												
XIA	OLIN CORP., WINCHESTER DIV												
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY NY												
YLE	ALLIANT TECHSYSTEMS, INC.												
YQM	GE, AIRCRAFT ENGINES	(15)	(2)										
YRA	AEROJET ORDINANCE TENNESSEE												
YST	U. S. ARMY, CORPUS CHRISTI DEPOT											1,362	2
YVX	NUCLEAR METALS, INC.											1	-
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA												
ZDP	U OF CINCINNATI MEDICAL CENTER, RSO												
ZNX	MICHIGAN TECHNOLOGICAL UNIVERSITY	159	1	266	-	203,070	405						
ZOV	MANUFACTURING SCIENCE CORPORATION												
ZOM	NUCLEAR FUEL SERVICES, INC.												
ZQQ	NUCLEAR METALS INC. (SEE YVX)			531	1	162	-						
ZSK	PRINCETON UNIVERSITY, OS&H							7,202	16				
ZST	CHAMBERLAIN MANUFACTURING CORP.			178									
FVCH	FEMP DISCARD TO HOLDING AREA												
GVCH	FEMP DISCARD TO HOLDING AREA												
MISC	NORMAL TO DEPLETED	1,225	6	10,121	69	57	-	1,461	9	1,079	4	6,799	42
MISC	ENRICHED TO DEPLETED												
MISC	MISCELLANEOUS	79	-	190	-	191	-	41	-				
TOTAL	TOTAL	3,501,383	7,084	1,247,390	2,527	1,708,815	3,512	3,173,866	6,389	5,965,729	11,940	6,558,012	13,051

**APPENDIX A.1
FEMP DEPLETED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

RIS	EXTERNAL RECEIPTS DEPLETED URANIUM SITE	FY1984		FY1985		FY1986 FVA		FY1986 FVC		FY1987		FY1988	
		U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
ALA	SANDIA NATIONAL LABS, ALBUQUERQUE												
ALD	SANDIA NATIONAL LABS, LIVERMORD												
AMC													
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS			32	-	35,543	94	401,649	862	567,660	1,115	309,944	623
ASA	DOW CHEMICAL USA, ROCKY FLATS DIV.												
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY												
AVB	EG&G MOUND APPLIED TECHNOLOGIES, INC												
AWA	MASON & HANGER, CO. PANTEX PLANT												
BMI	BATTELLE MEMORIAL INST.												
BWD	BECHTEL JACOBS COMPANY LLC									1,412,470	2,938	119	-
BXA	LMUS, USEC, PORTSMOUTH GDP	2											
BYA	UNION CARBIDE, PGDP, UESA, PADUCAH, KY												
BYC	USEC, PADUCAH GDP					337,080	689	98,751	199	599,978	1,221	372,686	740
CAF	BATTELLE, COLUMBUS DIVISION												
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)												
CKY	UNION CARBIDE NUCLEAR CO.												
CWA	FERMI NATIONAL ACCELERATOR LAB., ILL	11,432	19							108	-		
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)												
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS												
CZC	ARGONNE NATIONAL LABORATORY, IDAHO												
DAA	DOE SAVANNAH RIVER OFFICE												
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY	158,587	310	86,992	169			119,883	236	270,212	531		
FAA	DOE OAK RIDGE OPERATIONS OFFICE												
FAQ	N. L. INDUSTRIES, INC., NUC, DIV., ALBANY NY												
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT												
FBE	NEW BRUNSWICK LABORATORY, USAEC												
FTA	RMI TITANIUM COMPANY	2,809,764	5,636	2,356,404	4,723	632,165	1,273	2,233,509	4,496	309,809	631	5,466	12
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING												
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH			2	-			1	-			68	-
FYA	UNION CARBIDE, PGDP, PADUCAH, KY	2,962,393	5,871										
FYC	BECHTEL JACOBS CO., LLC, US	2,868,308	5,672	4,067,518	8,014	817,454	1,613	4,405,349	8,704	5,082,834	10,223	1,435,305	2,522
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN	15											
FZB	UNION CARBIDE CORP, Y-12 PLANT	9											
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN												
FZE	BECHTEL JACOBS COMPANY LLC												
FZF	LOCKHEED MARTIN ENERGY SYSTEMS, Y-12			1,032	3			2,305	5	3,787	8		
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL									1	-		
HUA	ROCKWELL HANFORD OPERATIONS, HANFORD												
HVA	ATLANTIC RICHFIELD HANFORD COMPANY												
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND									5,084	10		
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB												
JXI	WESTINGHOUSE IDAHO NUCLEAR CO, INC			318	-								
LAE	ROCKETDYNE, ROCKWELL INT, SANTA												
MAA	NEW YORK OPERATIONS OFFICE												
MAB	USAEC, CANEL PROJECT OFFICE												

**APPENDIX A.1
FEMP DEPLETED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

RIS	EXTERNAL RECEIPTS DEPLETED URANIUM SITE	FY1984		FY1985		FY1986 FVA		FY1986 FVC		FY1987		FY1988	
		U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
MAW	COMBUSTION ENGINEERING, NUCLEAR												
MBN	WHITTAKER CORP, NUC METALS												
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER												
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO												
MSA	USAEC NY OPERATIONS, NEW YORK NY												
ORL	OAK RIDGE NATIONAL LABORATORY												
PZA	BETTIS ATOMIC POWER LABORATORY												
QFA													
RCA	CANADA												
SFC	LOS ALAMOS SCIENTIFIC LABORATORY												
VVB	NLO INC, OHIO BURIAL GROUND			398	1								
VVC	FEMP, WASTE MANAGEMENT ACCOUNT									71			
XIA	OLIN CORP., WINCHESTER DIV			3									
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY NY												
YLE	ALLIANT TECHSYSTEMS, INC.											40	
YQM	GE, AIRCRAFT ENGINES												
YRA	AEROJET ORDINANCE TENNESSEE												
YST	U. S. ARMY, CORPUS CHRISTI DEPOT												
YVX	NUCLEAR METALS, INC.												
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA												
ZDP	U OF CINCINNATI MEDICAL CENTER, RSO			10									
ZNX	MICHIGAN TECHNOLOGICAL UNIVERSITY	18,412	36										
ZOV	MANUFACTURING SCIENCE CORPORATION												
ZQM	NUCLEAR FUEL SERVICES, INC.												
ZQO	NUCLEAR METALS INC (SEE YVX)												
ZSK	PRINCETON UNIVERSITY, OS&H												
ZST	CHAMBERLAIN MANUFACTURING CORP.												
FVCH	FEMP DISCARD TO HOLDING AREA												
GVCH	FEMP DISCARD TO HOLDING AREA												
MISC	NORMAL TO DEPLETED	1,467	5	18,211	138	2,232	17	6,658	55	9,590	66	8,609	61
MISC	ENRICHED TO DEPLETED												
MISC	MISCELLANEOUS									1,478	3		
TOTAL	TOTAL	8,830,389	17,549	6,530,920	13,048	1,824,474	3,686	7,268,105	14,557	8,263,082	16,746	2,132,237	3,958

**APPENDIX A.1
FEMP DEPLETED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

RIS	EXTERNAL RECEIPTS DEPLETED URANIUM SITE	FY1989		FY1990		FY1991		FY1992		FY1993		FY1994		FY1995FVC		FY1995GVC		FY1996	
		U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
ALA	SANDIA NATIONAL LABS, ALBUQUERQUE																		
ALD	SANDIA NATIONAL LABS, LIVERMORD																		
AMC																			
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS																		
ASA	DOW CHEMICAL USA, ROCKY FLATS DIV.																		
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY																		
AVB	EG&G MOUND APPLIED TECHNOLOGIES, INC			2,321	4														
AWA	MASON & HANGER, CO. PANTEX PLANT																		
BMI	BATTELLE MEMORIAL INST.																		
BWD	BECHTEL JACOBS COMPANY LLC	44																	
BXA	LMUS, USEC, PORTSMOUTH GDP																		
BYA	UNION CARBIDE,PGDP, UESA, PADUCAH,KY																		
BYC	USEC,PADUCAH GDP	63	2																
CAF	BATTELLE, COLUMBUS DIVISION																		
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)																		
CKY	UNION CARBIDE NUCLEAR CO.																		
CWA	FERMI NATIONAL ACCELERATOR LAB., ILL																		
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)																		
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS																		
CZC	ARGONNE NATIONAL LABORATORY, IDAHO																		
DAA	DOE SAVANNAH RIVER OFFICE																		
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY																		
FAA	DOE OAK RIDGE OPERATIONS OFFICE																		
FAQ	N. L. INDUSTRIES, INC., NUC, DIV., ALBANY NY																		
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT																		
FBE	NEW BRUNSWICK LABORATORY, USAEC																		
FTA	RMI TITANIUM COMPANY	2,715	7	88															
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING																		
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH																		
FYA	UNION CARBIDE, PGDP, PADUCAH, KY																		
FYC	BECHTEL JACOBS CO.,LLC,US	(466)	(2)																
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN																		
FZR	UNION CARBIDE CORP, Y-12 PLANT																		
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN																		
FZE	BECHTEL JACOBS COMPANY LLC																		
FZF	LOCKHEED MARTIN ENERGY SYSTEMS, Y-12	8,590	18																
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL			1		1													
HUA	ROCKWELL HANFORD OPERATIONS, HANFORD																		
HVA	ATLANTIC RICHFIELD HANFORD COMPANY																		
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND																		
HYA	BATTELLE MEMORIAL INST,PACIFIC NW LB																		
JXI	WESTINGHOUSE IDAHO NUCLEAR CO, INC																		
LAE	ROCKETDYNE, ROCKWELL INT, SANTA																		
MAA	NEW YORK OPERATIONS OFFICE																		
MAB	USAEC, CANEL PROJECT OFFICE																		

**APPENDIX A.1
FEMP DEPLETED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

RIS	EXTERNAL RECEIPTS DEPLETED URANIUM SITE	FY1989		FY1990		FY1991		FY1992		FY1993		FY1994		FY1995FVC		FY1995GVC		FY1996	
		U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
MAW	COMBUSTION ENGINEERING, NUCLEAR																		
MBN	WHITTAKER CORP, NUC METALS																		
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER																		
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO																		
MSA	USAEC NY OPERATIONS, NEW YORK NY																		
ORL	OAK RIDGE NATIONAL LABORATORY																		
PZA	BETTIS ATOMIC POWER LABORATORY																		
QFA																			
RCA	CANADA																		
SFC	LOS ALAMOS SCIENTIFIC LABORATORY																		
VVB	NLO INC, OHIO BURIAL GROUND																		
VVC	FEMP, WASTE MANAGEMENT ACCOUNT					8						76,627	169						
XIA	OLIN CORP., WINCHESTER DIV																		
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY NY																		
YLE	ALLIANT TECHSYSTEMS, INC.																		
YQM	GE, AIRCRAFT ENGINES																		
YRA	AEROJET ORDINANCE TENNESSEE																		
YST	U. S. ARMY, CORPUS CHRISTI DEPOT			3,220	6														
YVX	NUCLEAR METALS, INC.			12,212	24														
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA											2							
ZDP	U OF CINCINNATI MEDICAL CENTER, RSO																		
ZNX	MICHIGAN TECHNOLOGICAL UNIVERSITY																		
ZOV	MANUFACTURING SCIENCE CORPORATION	4,862	10															19	
ZQM	NUCLEAR FUEL SERVICES, INC.																		
ZQQ	NUCLEAR METALS INC (SEE YVX)																		
ZSK	PRINCETON UNIVERSITY, OS&H																		
ZST	CHAMBERLAIN MANUFACTURING CORP.																		
FVCH	FEMP DISCARD TO HOLDING AREA			62	-	31,265	62	64		5,287	11	244,248	607	46,327	98				
GVCH	FEMP DISCARD TO HOLDING AREA															1,643	3	3,931	8
MISC	NORMAL TO DEPLETED	13,317	94	202	2	95	1												
MISC	ENRICHED TO DEPLETED																		
MISC	MISCELLANEOUS	537	1			24	-												
TOTAL	TOTAL	29,662	130	18,106	36	31,393	63	64	-	5,288	11	320,877	776	46,327	98	1,643	3	3,950	8

**APPENDIX A.1
FEMP DEPLETED RECEIPTS**

**RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM**

RIS	EXTERNAL RECEIPTS DEPLETED URANIUM SITE	FY1997		FY1998		FY1999		TOTAL	
		U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
ALA	SANDIA NATIONAL LABS, ALBUQUERQUE							111	-
ALD	SANDIA NATIONAL LABS, LIVERMORD							5	-
AMC								537	1
ARF	ROCKWELL INTERNATIONAL, ROCKY FLATS							1,316,731	2,696
ASA	DOW CHEMICAL USA, ROCKY FLATS DIV.							1,430	3
AVA	MONSANTO RESEARCH CORP, MOUND FACILITY							2	-
AVB	EG&G MOUND APPLIED TECHNOLOGIES, INC							2,321	4
AWA	MASON & HANGER, CO. PANTEX PLANT							31	-
BMI	BATTELLE MEMORIAL INST.							113	-
BWD	BECHTEL JACOBS COMPANY LLC							1,412,633	2,938
DXA	LMUS, USEC, PORTSMOUTH GDP							2	-
BYA	UNION CARBIDE, PGDP, UESA, PADUCAH, KY							6,427	13
BYC	USEC, PADUCAH GDP							1,408,558	2,851
CAF	BATTELLE, COLUMBUS DIVISION							35	-
CCC	UNION CARBIDE NUCLEAR CO. (K-25 PLANT)							272	2
CKY	UNION CARBIDE NUCLEAR CO.							64,495	144
CWA	FERMI NATIONAL ACCELERATOR LAB., ILL							11,540	19
CYT	UNION CARBIDE NUCLEAR CO. (Y-12 PLANT)							1,251	3
CZA	ARGONNE NATIONAL LABORATORY, ILLINOIS							33,014	70
CZC	ARGONNE NATIONAL LABORATORY, IDAHO							359	1
DAA	DOE SAVANNAH RIVER OFFICE							129,075	895
DZA	WESTINGHOUSE SAVANNAH RIVER COMPANY							1,669,640	4,342
FAA	DOE OAK RIDGE OPERATIONS OFFICE							1	-
FAQ	N. L. INDUSTRIES, INC., NUC. DIV., ALBANY NY							283	-
FBA	GENERAL ELECTRIC CO, EVENDALE PLANT							4,412	9
FBE	NEW BRUNSWICK LABORATORY, USAEC							5	-
FTA	RMI TITANIUM COMPANY							35,678,686	67,014
FWA	MALLINCKRODT CHEMICAL, WELDON SPRING							3,369	6
FXA	BECHTEL JACOBS, USDOE, PORTSMOUTH							84	-
FYA	UNION CARBIDE, PGDP, PADUCAH, KY							31,717,025	61,817
FYC	BECHTEL JACOBS CO., LLC, US							18,676,302	36,746
FZA	UNION CARBIDE, ORGDP, OAK RIDGE, TN							388	-
FZB	UNION CARBIDE CORP, Y-12 PLANT							4,451	21
FZC	UNION CARBIDE, ORNL, OAK RIDGE, TN							3,735	8
FZE	BECHTEL JACOBS COMPANY LLC							1	-
FZF	LOCKHEED MARTIN ENERGY SYSTEMS, Y-12							15,714	34
FZG	LOCKHEED MARTIN ENERGY SYSTEMS, ORNL							3	-
HUA	ROCKWELL HANFORD OPERATIONS, HANFORD							1,632	10
HVA	ATLANTIC RICHFIELD HANFORD COMPANY							467,465	2,951
HXA	UNC NUCLEAR INDUSTRIES, RICHLAND							14,144	22
HYA	BATTELLE MEMORIAL INST, PACIFIC NW LB							13,811	25
JXI	WESTINGHOUSE IDAHO NUCLEAR CO, INC							318	-
LAE	ROCKETDYNE, ROCKWELL INT, SANTA							2,739	6
MAA	NEW YORK OPERATIONS OFFICE							43	-
MAB	USAEC, CANEL PROJECT OFFICE							50	-

APPENDIX A.1
FEMP DEPLETED RECEIPTS

RECYCLED URANIUM PROJECT
FEMP HISTORICAL DATA
RECEIPTS OF DEPLETED URANIUM

RIS	EXTERNAL RECEIPTS DEPLETED URANIUM	FY1997		FY1998		FY1999		TOTAL	
		U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS	U KGS	U-235 KGS
MAW	COMBUSTION ENGINEERING, NUCLEAR							384	-
MBN	WHITTAKER CORP, NUC METALS							18	-
MBR	BABCOCK & WILCOX, R/D, NUC DEV CENTER							1	-
MCW	MALLINCKRODT CHEMICAL WORKS, WELDON SPRING MO							1,733	5
MSA	USAEC NY OPERATIONS, NEW YORK NY							3	-
ORL	OAK RIDGE NATIONAL LABORATORY							29	-
PZA	BETTIS ATOMIC POWER LABORATORY							107	-
QFA								9	-
RCA	CANADA							11	-
SFC	LOS ALAMOS SCIENTIFIC LABORATORY							1	-
VVB	NLO INC, OHIO BURIAL GROUND							673	1
VVC	FEMP, WASTE MANAGEMENT ACCOUNT							76,706	169
XIA	OLIN CORP., WINCHESTER DIV							3	-
YDE	NUCLEAR FUEL SERVICES, WEST VALLEY NY							13,012	90
YLE	ALLIANT TECHSYSTEMS, INC.							40	-
YQM	GE, AIRCRAFT ENGINES							4,951	8
YRA	AEROJET ORDINANCE TENNESSEE							214	-
YST	U. S. ARMY, CORPUS CHRISTI DEPOT							4,582	8
VVX	NUCLEAR METALS, INC.							12,213	24
ZDC	THE CATHOLIC UNIVERSITY OF AMERICA							2	-
ZDP	U OF CINCINNATI MEDICAL CENTER, RSO							10	-
ZNX	MICHIGAN TECHNOLOGICAL UNIVERSITY							221,907	442
ZOV	MANUFACTURING SCIENCE CORPORATION							4,862	10
ZQM	NUCLEAR FUEL SERVICES, INC.							19	-
ZQQ	NUCLEAR METALS INC (SEE VVX)							706	1
ZSK	PRINCETON UNIVERSITY, OS&H							7,202	16
ZST	CHAMBERLAIN MANUFACTURING CORP.							178	-
FVCH	FEMP DISCARD TO HOLDING AREA							327,253	778
GVCH	FEMP DISCARD TO HOLDING AREA	1,946	5	320	1	166	-	8,006	17
MISC	NORMAL TO DEPLETED							2,681,989	18,968
MISC	ENRICHED TO DEPLETED							23,555	174
MISC	MISCELLANEOUS							9,432,285	18,394
TOTAL	TOTAL	1,946	5	320	1	166	-	105,485,907	221,756